Rękopis i jego oprawę wyrestaurował introligator Jan Wyżga w r. 1934.

I

Dupliter canones sup tablas Alfonsini
Tabule Alphonsii
Theorice planetarum cu scripto
Sphera mali[illegible] cum scripto
[illegible] cum scripto
Compotus Judaicus cu scripto
Compotus Florentinus [illegible] cu scripto
[illegible] physicus [illegible] tertius



Magnificat. Anima mea

528

Duplices Errores super Tabulas Alphonsi et alia mathematicalia

1

0 8 21 virgo
0 3 22

Anno domini 908 [illegible] currente [illegible] fuit [illegible] 77 [illegible] xxvj 9 gradu [illegible]

Compositum [illegible]

1	2	3	4	5	6	7	8	9
2	4	6	8	10	12	14	16	18
3	6	9	12	15	18	21	24	27
4	8	12	16	20	24	28	32	36
5	10	15	20	25	30	35	40	45
6	12	18	24	30	36	42	48	54
7	14	21	21	35	42	49	56	63
8	16	24	32	40	48	56	64	72
9	18	27	36	45	54	63	72	81

Anni	Ā	2	3	4	5	6	7
20	12	5	26	12	20	35	
10	6	2	43	6	10	17	30
8	4	50	10	28	56	14	
4	2	25	5	14	28	7	
2	1	12	32	37	14	3	30
1	0	36	16	18	37	1	45
[illegible]							
8	0	24	10	52	24	41	12
6	0	18	8	9	18	30	52
			5	20	12	20	36
			4	4	39	17	26
			2	43	6	10	18
			1	21	33	5	9
5	0	1	30	40	46	32	34
4	0	0	45	20	23	16	17
2	0	0	22	40	11	38	8
	0	0	5	40			
	0	0	0	17	20		

Hore	3	4	5
18	4	36	0
15	3	50	0
12	3	4	0
8	2	2	40
6	1	32	0
4	1	1	20
3	0	46	0
2	0	30	40
1	0	15	20

In nomine domini amen. Licet multi libri sint compositi qui canones motuum stellarum appellantur, tamen quia nullus videtur omnino completus, ideo placuit michi [illegible] [illegible] tabulas Alphonsi [illegible] Castelle [illegible] per modum tabularum [illegible] [illegible]

[illegible]

[illegible] [illegible] 37482 et 6 menses et 14 dies [illegible]

[illegible]

[illegible]

capitula 4 3 2 et 1 [illegible] tabula
[illegible] ad aliam [illegible]
[illegible] ad aliam [illegible] 4
2 et 1 [illegible]
[illegible]
[illegible] tabula [illegible]
[illegible] et tabula [illegible]
ad aliam et [illegible]
4 3 etc. [illegible]
[illegible]
[illegible] 4 3 etc. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
4 3 etc. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
4 et 3 etc. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

P [illegible]
[illegible] alphonsii [illegible]
4 3 2 1 [illegible]
[illegible]
[illegible] alphonsius [illegible]
[illegible]
[illegible]
[illegible]
[illegible] 4 3 etc.
[illegible]
[illegible] tabula [illegible]
[illegible]
[illegible]

[illegible] tabula [illegible]
[illegible]
[illegible] alphonsii [illegible]
[illegible]
[illegible]
[illegible] tabula [illegible]
[illegible] alphonsii [illegible]
[illegible]
[illegible] alphonsii
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 4 3 etc. [illegible]
[illegible]
[illegible] tabula [illegible]
[illegible]
[illegible] 4 3 etc. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] alphonsii [illegible]
[illegible] 4 3 etc.
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 4 3 etc. [illegible]
[illegible]
[illegible]
[illegible]

N [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible] tractatus [illegible]

[illegible] actuum celestium [illegible]

Orbes celestes [illegible]

[illegible] astrolabii [illegible]

[illegible]

qua longitudo radicum, et si longitudo ut ci-
vitatis tue est orientalior quam longitudo
radicum tunc medii motus distantie
suorum centrorum meridianorum sub-
trahe a media tabule. Si vero occi-
dentalior (et quod diximus prius) addatur ut sub-
tractio plus venerit erit radix ad
locum tuum reducta. Sequitur

Primus modus inveniendi distancias

alius. Amplius modus inveniendi
distantiam duorum locorum meridia-
norum est multum quietior duobus sub-
tractionibus. Primus est quod debes in-
trare ad tabulam longitudinum regio-
num et querere longitudinem loci
radicum per modum quo quesivisti longitudinem
regionis tue et tunc subtrahe
minorem de maiori et remanebit
distantia duorum locorum meridianorum
in gradibus. Fac ergo et [illegible] in-
venies [illegible] [illegible] per [illegible] sicut
in canonibus astrolabii dictum est
et [illegible] est [illegible] si in [illegible] ambas
regiones et civitates in tabula
regionum et [illegible] quod tabula longitudi-
num regionum sit [illegible] [illegible] quando
tamen invenies. Et [illegible] hec
utraque [illegible]. Et est alius equa-

modus inveniendi distancias civitatum per eclipses

[illegible] eclipsis lunaris [illegible]
loci radicum per modum [illegible] eclipsis
lunaris quam per tabulas [illegible]
sed in civitate ista cuius distantiam
queris et [illegible] luna incipit [illegible]
[illegible] tunc [illegible] capitis altitudinem
alicuius stelle fixe in astrolabio
super latitudinem tunc regionis in
[illegible] [illegible] quam [illegible]
stelle in almucantarat altitudinis sue et
in [illegible] [illegible] quod est [illegible]
[illegible] [illegible] ad aliud [illegible]
sicut expositum est circa astrola-
bium. Subtrahe minus [illegible] [illegible]
et illud quod remanet erit distantia
[illegible] [illegible] [illegible] [illegible] et
[illegible] [illegible] et iste modus
certus est et verus. Exemplum autem

distancia Erfordie a toleto

quod erfordia distat a toleto [illegible]
[illegible] 16 gradibus et [illegible]
[illegible] [illegible] et [illegible]
[illegible] sicut [illegible] [illegible]
est a quo meridiano erfordie [illegible]

civitas lubeke [illegible] [illegible] [illegible] meridiano
distans [illegible] [illegible] civitas nurenberch
et civitas augusta [illegible] meridiano
[illegible] distant [illegible] [illegible]

Ex prius [illegible] [illegible] [illegible] [illegible]
et apparentem [illegible] 4[illegible] [illegible]
motuum lunarium [illegible] [illegible]
hec facta invenire. [illegible] totam
[illegible] [illegible] [illegible] [illegible] que tabula [illegible]
et ad 4 3 2 et 1 quo facto [illegible]
scribe radicem medie elongationis
lune a sole [illegible] ad [illegible]
[illegible] quam [illegible] et [illegible]
[illegible] radicum [illegible]
[illegible] [illegible] 4 3 2 1 [illegible]
ad tabulam in [illegible] tali [illegible]
elongationis a sole ut tabula [illegible]
[illegible] lune in elongatione [illegible] a sole
[illegible] modum [illegible] [illegible] 3 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] 4 3 2 et 1 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] o
[illegible] a in [illegible] [illegible] in
[illegible] a in [illegible] et a in 3 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] quo in [illegible] [illegible]
[illegible]. Si [illegible] [illegible] [illegible]
3 [illegible] [illegible] apparentem [illegible]
[illegible] [illegible] in [illegible] [illegible]. Si [illegible]
[illegible] [illegible] 40 [illegible] et [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] [illegible]. [illegible] [illegible]
[illegible] [illegible] 2 [illegible] [illegible] [illegible]
[illegible] 4 [illegible] [illegible] et 30 [illegible]
[illegible] [illegible] 4 [illegible] 2 [illegible]
[illegible] [illegible] [illegible] quo in [illegible]
[illegible] [illegible] [illegible]. [illegible]
[illegible] [illegible] 4 [illegible] [illegible] lune
[illegible] [illegible] [illegible] [illegible]
[illegible] motus [illegible] et [illegible]
motus lune [illegible] [illegible]
40 [illegible] [illegible] a sole [illegible]
lune ad [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et apparentem
[illegible] [illegible] [illegible] 29 [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] motus [illegible]
[illegible] [illegible] 2 [illegible] [illegible]
[illegible] [illegible] a sole [illegible] lune

tunc illa figura semper p(ro)ponitur quando
in 4 lineis p(ost) ... vel pollicis magis
propinquius ... ibi in ...
prope vel pollicis magis propinquius tunc
linea in directo ... cum ...
... sunt ... Si vero illas
figuras ... prope ... in ...
... propinquus tunc ... continens
... ad ... lineis p(er) ...
... ubi scribitur figura ... continens
... prope ... in ...
pollicis ... lineis in ...
in directo ... cum ...
... erit ... cum ...
... cum quibus erit in
... quarum in 4 lineis
... in ...
tunc ad ... lineis ... cum
ubi scribitur figura ... continens
Intelligendum ...
... ad 4 lineas ... tunc
... in ...
Et ... ad ...
... lineis ... cum ubi scribitur
figura ... tunc ... cum in
... Et ...
... ad 4 lineas ...
lineas tunc in ... cum ...
... et ... ad ...
ad alias lineas ... in ...
... Et ...
... ad 4 lineas ...
tunc in directo ... cum in
... et ... ad
... ad alias lineas ...
... in ...
... intelligatur ...
... Et ...
... in ...
... Et ...
... et ...
figuras ... et ...
... cum ...
... elongationis
... est ... ad ...
... elongationis ... et ...
et quaeras ... est ... convenit
... sicut in ... est
... in ... tempus con-
veniens elongationi tunc

tunc ... est ... cum ... primo
... elongationis ...
... Et ... in ... elongationis ... stationis
... elongationis fiet plus ...
... in ...
tunc ... Et ... tunc ...
... tunc ...
... elongationi tunc ...
... convenit ... tabula
... elongationis ...
... sicut ... est
... Et ... in ... tempus
conveniens elongationi tunc tunc
... 4° ...
... elongationis ...
... Et tabula
... in ... quaeras ...
... incipiens
... in ...
... in ... ut
... Et ...
... in ...
... Et ...
... elongationis ... et
... Et ...
... alphonsi ... quare
24 gradus 31 gradus ... 36
... tunc ...
... Et ...
... alphonsi Et ...
... et ... in ...
... tunc ...
14 gradus 47 gradus 47 363
48 4 Et ... cum ...
... tunc ...
... Et ...
... et ...
et ... in ...
... tunc ...
... et ...
... elongationis

Tempus in quo ab una coniunctione ad aliam	29	12	44
Tempus in quo a coniunctione ad oppositionem	14	18	22
Tempus in quo a coniunctione ad quadraturam	7	9	11

Et tantum est ab oppositione ad oppositionem mediam quantum a coniunctione media ad quadraturam mediam. Similiter tantum est ab oppositione media ad oppositionem mediam quantum est [illegible] ... 22 ... 31 ... 14 ... 24 ... 22 ... 7 12 37 et 42 ... [illegible]

[illegible]

[illegible] motus et [illegible] inveniet in [illegible] est [illegible]
[illegible] 31 50 7 [illegible] secunda et 71 tercia [illegible]

quantitatem per radices apparentis [illegible] et [illegible] tabula super motum medium [illegible] que [illegible] et [illegible] equacio. Quando autem [illegible] plures [illegible] dies [illegible] et quantitas [illegible] dies [illegible] que [illegible] in [illegible] sub [illegible] et annos dies et [illegible] tabula que [illegible] [illegible] et [illegible] [illegible] motus [illegible] in apparente [illegible] et [illegible] dies [illegible] Similiter [illegible] medium [illegible] motus [illegible] dies [illegible] Et per [illegible] motus [illegible] 16 [illegible] 36 [illegible] Et per [illegible] medio [illegible] 1 58 36 [illegible] 27 [illegible] 17 2 Et per [illegible]

latitudinis lune [illegible] et [illegible] in [illegible] 27 et 22 dies [illegible] Et per [illegible] motu [illegible] 21 49 48 Et per [illegible] lune [illegible] 21 47 [illegible] lune [illegible] in [illegible] et [illegible] in [illegible] Et [illegible] [illegible] 29 dies 12 horas 44 3 24 [illegible] Albategni et Alzarchel et [illegible] astrolab [illegible] 29 dies 12 horas 44 3 20 et [illegible] [illegible] lune [illegible] medianum quantitatem et apparentem in [illegible] sol

Nus dierum mensium	Nus ordinis mensium	Nomina mensium	Tempus equationis et apparentis				Medius motus Solis				Medius latitudinis lune				Medius latitudinis lune 2			
			dies	m	2	3	S	m	2	3	S	m	2	3	S	m	2	3
31	31	1	Ja	29	31	50	8	0	29	6	24	0	25	49	1	0	30	44	14
28	59	2	fe	59	3	40	15	0	58	12	48	0	51	38	1	1	1	20	28
31	90	3	Mar	88	35	30	23	1	27	19	13	1	17	27	2	1	32	0	41
30	120	4	Ap	118	7	20	30	1	56	25	37	1	43	6	2	2	2	49	55
31	151	5	May	147	39	10	38	2	25	32	1	2	9	5	3	2	33	21	9
30	181	6	Jun	177	11	0	46	2	54	38	25	2	34	54	3	3	4	1	23
31	212	7	Jul	206	42	10	13	3	23	44	49	3	0	43	4	3	34	41	36
31	243	8	Aug	226	14	41	1	3	53	11	14	3	26	32	5	4	5	21	50
30	273	9	Sep	265	46	31	9	4	21	17	38	3	52	21	5	4	36	2	4
31	304	10	Oc	295	18	21	16	4	11	4	2	4	18	10	6	5	6	42	18
30	334	11	No	324	20	11	24	5	20	10	27	4	43	59	6	5	37	22	31
31	365	12	Dec	354	22	1	31	5	49	16	50	5	9	48	7	0	8	2	45

Notandum etiam quod in omnibus libris et exemplaribus per loca diversa semper una dieta erit plus [illegible] quod est contra [illegible] in tabulis. Item notandum quod [illegible] medii [illegible] cum [illegible] in [illegible] sub [illegible] medium motum solis [illegible] motum lune [illegible] et [illegible] ptolomeum. Completum intelligendo est quod tabule [illegible] in [illegible] motus solis in una hora [illegible] lune et in una die et illud quod remanet duplicando de triplicando [illegible] 60 [illegible] potest probari in [illegible] complendum hic patet et intelligere vel

q^{us}

Terminus eclipsis in aliqua quantitate vel eclipsis lune in aliqua apparente et possibilis in [illegible]. Terminorum argumenti latitudinis lune ad [illegible] quantitatem [illegible] possibilem eclipsis solis et sunt 0 in signis et minus 20 gradibus vel 2 signis et plus 10 gradibus vel 3 signis et minus 10 gradibus vel 4 signis et plus [illegible] gradibus. Extra eclipsis fore possibilem. Terminus eclipsis apparentis quantitate argumenti latitudinis lune sunt possibile eclipsis lune et sunt 0 in signis et minus 21 gradibus vel 2 signis et plus 39 gradibus vel 3 signis et minus 21 gradibus vel 4 signis et plus 39 gradibus. Extra eclipsis fore possibilem. Sed [illegible] argumenti latitudinis lune in [illegible] possibile est eclipsis. Notandum etiam quod [illegible] fuerit in quantitate media argumenti latitudinis [illegible] et eadem quantitas [illegible] fuerit [illegible] in possibilitate apud [illegible] eclipsis solis et [illegible] latitudinis est [illegible] latitudinem [illegible] argumenti latitudinis fuerit [illegible]

in quantitate media eclipsis solis vel [illegible] impossibilis reputatur.

Modum componendi tabulas motuum mediorum et partes [illegible] motus [illegible] habent sub [illegible]. Quelibet tabula mediorum motuum [illegible] 60 lineas et [illegible] plures [illegible]. Sed igitur [illegible] linea aliarum tabularum [illegible] [illegible] in [illegible] [illegible] et [illegible] et [illegible] lunae [illegible] [illegible] [illegible] et [illegible] [illegible] in [illegible] [illegible] et [illegible] [illegible] [illegible] et est [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] capitis [illegible] [illegible] in [illegible] tabula et [illegible] [illegible] [illegible]. Componi igitur [illegible] [illegible] [illegible] [illegible] [illegible] tabula lunae [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tabula [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Sed [illegible] [illegible] [illegible] [illegible] [illegible]

genus et reducta [illegible] in [illegible]
lineam de qua dubitatis [illegible]
[illegible] multiplicatio [illegible] ad
[illegible] grossiores et ponunt plu-
[illegible] de qua dubitatur. [illegible]
[illegible] Exemplum [illegible] habent in modo
unius diei [illegible] duple ad triple
[illegible] linea et alia linea
duplex [illegible] unius diei
perfecta et habet [illegible] et ut [illegible]
[illegible] semper modo unius diei ad
[illegible] est [illegible] que ultra p-
[illegible] quod [illegible] linee com-
plantur. [illegible] modo potest [illegible]
[illegible] comparatum cum talis
[illegible] modo [illegible] modo
unius diei habent [illegible] cor-
rupte [illegible] valebant [illegible]

T[illegible] modus quartus et oppo-
situs [illegible] prolatio
[illegible] in [illegible]
[illegible]
[illegible] ad [illegible]
[illegible]
[illegible] in [illegible] et [illegible]
[illegible] quod [illegible] ad [illegible]
ad talem [illegible]
[illegible] modo [illegible]
[illegible] et [illegible]
[illegible] Si [illegible]
[illegible] et [illegible]
[illegible] erit [illegible]
[illegible] et [illegible] Si [illegible]
[illegible] et [illegible]
[illegible] erit [illegible]
[illegible] Exemplum [illegible]
[illegible] et [illegible]
[illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] in
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] modo [illegible] et [illegible]

sic [illegible] tunc valet ad unam aliorum
[illegible] ad [illegible] talem
[illegible]
intra duo ad pausa longa vel semi-
[illegible]
vel longam imperfectionem et [illegible]
[illegible] vel [illegible]
[illegible] tunc in duratio-
[illegible] longa [illegible] in [illegible]
et [illegible] ad [illegible] Si vero [illegible]
[illegible] in duabus longis [illegible]
[illegible]
[illegible] tunc valet ad [illegible]
[illegible] longa
[illegible] longa [illegible] vel semi [illegible]
[illegible]
vel [illegible] et [illegible]
[illegible] vel [illegible]
[illegible] tunc in duratio-
[illegible] longa [illegible]
[illegible] ad [illegible]
[illegible]
[illegible] aliquid et [illegible]
tunc [illegible] longa
[illegible] in duabus [illegible]
[illegible] et [illegible]
[illegible] vel [illegible]
[illegible] tunc in duratio [illegible]
[illegible]
[illegible] Si [illegible]
[illegible]
[illegible] longa [illegible]
[illegible] in [illegible]
tunc [illegible] longa [illegible]
[illegible] vel [illegible]
et [illegible]
[illegible] tunc in
longa [illegible]
[illegible] ad [illegible]
[illegible] et [illegible]
[illegible] tunc [illegible]
[illegible] vel [illegible]
[illegible] Si vero aliquid
[illegible]
[illegible] aliquid [illegible] et [illegible]
tunc valet [illegible] ad [illegible]
[illegible]
[illegible] vel [illegible]

[illegible]

[illegible]

et quantitatem quam tempus et ad
latitudinem. Notandum preterea quod secundum ptholomeum
est durante quantitate motus [illegible] plus
proximas mediant 15 | 2 | 0 | 36 |
28 | 6 | 7 | 8 | [illegible] 24 annis secundum ptholomeum
et in 4 2 13 47 34 21 16
Et patet ergo quod [illegible] calculacionibus
ad inveniendum. Dico tamen quod motus al-
phonsi multo plus solum veritati
appropinquat [illegible] quam motus
ptholomei. Sed de hac quantitate in
hoc dicendum. Sed per [illegible] mecha-
nicis [illegible] determinacionibus
super et [illegible] distinccionibus et
pluribus dicitur in libro quodam
[illegible] quantum est [illegible] et
[illegible] filiorum [illegible] et
[illegible] qui est talium
de [illegible] [illegible] apertius
quam [illegible] in tabulis alphonsi

Medium motum augis [illegible]
planete ad tempus [illegible] et
[illegible] non est scriptum in canone
Tabule mediorum motuum quibus
inveniuntur medii motus stellarum
sunt composite per duos modos
quorum unus modus est alphonsi
[illegible] alterius [illegible] quam [illegible]
[illegible]. Alius est modus quo
medius motus stellarum fixarum in-
veniuntur [illegible] alius [illegible]
[illegible] et [illegible] [illegible] aliorum
[illegible] [illegible] modo quo
[illegible]. Dico [illegible] quod tales [illegible] modo
per quos tales mediorum motuum
ad duos [illegible] [illegible]
quare tales sunt ordinate [illegible] quod
[illegible] [illegible] collec-
torum [illegible] est medius motus [illegible]
planete cuius est talis. Sed [illegible]
quod in quibusdam tabulis [illegible] me-
diorum motuum sunt addita ad
quedam motum augis duorum colle-
ctorum et [illegible] modo [illegible] arza-
chel in tabulis suis [illegible] tolletanis.
Similiter [illegible] modo [illegible] tales [illegible]
[illegible] et [illegible]. Similiter
et [illegible] et in [illegible]

[illegible] tabulis mediorum motuum
motuum ad [illegible] [illegible] sunt
in [illegible] tabularum ad duos
collectos [illegible] [illegible]. Sed [illegible]
alie tabule [illegible] [illegible]
[illegible] motuum [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] collectorum
[illegible] in [illegible] [illegible] duorum
collectorum sunt [illegible] et [illegible]
modo [illegible] [illegible] [illegible]
[illegible] in tabulis suis quas
et tabulas [illegible] alphonsi. Sed
tales / 2 [illegible] quod tales me-
diorum motuum ad [illegible] [illegible]
[illegible] / 3 quod tales ad [illegible]
/ [illegible] quod tabulis [illegible] / [illegible]
quod tabulis ad [illegible] [illegible]
[illegible] et [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] motus [illegible] [illegible] quibus
tabulis 2 [illegible] modo [illegible]
[illegible] [illegible] [illegible] tabulis
[illegible] alphonsi [illegible]
[illegible] [illegible] [illegible]
mediorum motuum et [illegible] tabulis
applicantur / 4 [illegible] ad [illegible]
Similiter ad motum duorum
collectorum addita non sunt
[illegible] [illegible] [illegible] per [illegible]
medium motum ad tempus [illegible]
[illegible]. Si non addita
sunt [illegible] non [illegible] ad [illegible]
[illegible] [illegible] est [illegible]
alphonsi [illegible] in [illegible]
[illegible] ad [illegible] tempus
[illegible] [illegible] [illegible]
[illegible] et [illegible] tempus [illegible]
[illegible] / 3 [illegible] 2 [illegible]
[illegible] 4 [illegible] [illegible] [illegible]
[illegible] 7 [illegible] ad tales medios
[illegible] [illegible] [illegible]
[illegible] [illegible] 3 [illegible] [illegible]
[illegible] aliquid [illegible]. Et
[illegible] [illegible] [illegible]
[illegible] ad [illegible] [illegible]

tunc subtrahatur ipsum [illegible] cardine
medii motus alius erit ante
quod [illegible] motus [illegible]
in [illegible] cardine. [illegible]
medii motus quod valeat in
[illegible]. Et si non passus sub
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] et in [illegible]
[illegible] ad [illegible]
[illegible] duorum collectorum [illegible]
[illegible]
[illegible]
[illegible]

[illegible] ad [illegible]
[illegible] et [illegible] medii motus quod
[illegible]
[illegible]
[illegible] duorum collectorum et
[illegible]
[illegible]
[illegible]
[illegible] ad talem [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] ad [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

autoris esse ordinata. Et consulo
tibi ut in alio libro non labores nisi
isto quia si intellexeris eum intelliges
omnes tabulas et canones qui ab auc-
toribus aliis sunt ordinati et hoc expresso
et proprio tibi ut similiter dicam tractatus
istius tractatus multis et non aliter
facias quia si ita feceris liberaberis a multis
laboribus et erroribus quos alii
inscii sunt intuentes auctorum volentium
astronomiam addiscere. Postquam vero
pertractavi similiter quod exponi tabulas alfonso
de hoc ~~[illegible]~~ dictis fui quod omnia dicta dicenda
proportione. Sed ideo ut scias et intelligas
~~[illegible]~~ istis omnibus alie faciunt
Sed tamen quia antique adinvenciones
et moderne non hoc docent quod cum
omnes medii motus qui ponunt tabule alfonso
diminute. Et quasi tale equacionis stant
solis et lune et veneris superfluunt
Equaciones non centri lune sunt
differentes vix tamen habentur quod quando
ciones vel luna non appropinquant super-
vacui quia quod superfluunt in uno scilicet sole
et diminuta in alio scilicet luna et illa
diminucio unius restaurat superfluitatem
alterius et hoc multos magnos et satis
famosos philosophos in prediccione tabularum
perdidit. Credunt enim esse tempore ptolomei et
alphonsi ~~[illegible]~~ placeat ut medios motus
planetarum in una die et in utriusque
hic apponatur. Sequitur figura

Medii motus planetarum in una die secundum ptholomeum in libro almagesti								
Medius motus [solis]	0	0	59	8	17	13	12	31
Medius motus lune	0	13	10	34	58	33	30	30
Medii centri lune a sole	0	12	11	26	41	20	17	59
Medius argumenti lune	0	13	3	53	56	17	51	59
Caput draconis	0	0	3	10	41	15	26	7
Medius latitudinis lune	0	13	13	45	39	4		
Medius motus saturni	0	0	2	0	33	31	28	51
Medius jovis	0	0	4	59	14	26	46	31
Medius martis	0	0	31	26	36	53	51	33
Medius argumenti veneris	0	0	36	59	25	53	11	22
Medius argumenti mercurii	0	3	6	24	6	59	35	50

Medii motus planetarum in una die secundum tabulas alfonsi								
Medius motus solis	0	0	59	8	19	37	19	13
Medius lune	0	13	10	35	1	15	11	4
Medii centri lune a sole	0	12	11	26	41	37	51	50
Medius argumenti lune	0	13	3	53	57	30	21	4
Caput draconis	0	0	3	10	38	7	14	49
Medius latitudinis lune	0	13	13	45	39	22	25	53
Medius saturni	0	0	2	0	35	17	40	21
Medius jovis	0	0	4	59	15	27	7	23
Medius martis	0	0	31	26	38	40	5	0
Medius argumenti veneris	0	0	36	59	27	23	59	31
Medius argumenti mercurii	0	3	6	24	7	42	40	52

Et post quam hec sunt placent in
fine imponere dicta secunda capituli huius
tractatus et illud quod de tercio re-
stat exequamur continuo per tractatum
hoc complendo dei adjutorio etc.

Capitulum tercium

Cum locum augis cuiuslibet planete
per tabulas exponere volueris
accipe tempus ad quod vis et hoc
facto intra cum eo ad tabulas
augium et stellarum ~~[illegible]~~ fixarum
in proprio loco accipiendo mediam
et postquam dicte sunt medias addere
mediam addendo sunt motum ~~[illegible]~~
istud addere ad mediam cuiuslibet
augis planetarum. Et sic dico
ad mediam etc. et sic de aliis
quod intendo exponendo etc. quod potest
medius motus est solis hoc
est medius motus lune post
est augis solis et augis motus
est pro hoc et sic intelliges etc.

Tabula radicum augium planetarum pertinentium ad dictas precedentes

Radices augium solis ad eius h. p.						
Rx diluvii	0	24	42	1	0	
Rx nabuch	0	59	18	17	3	10
Rx philippi						
Rx allexandri magni						
Rx cesaris						
Rx incarnationis	1	10	16	43	45	24
Rx alhigera						
Rx yesdegerd						
Rx alphonsi	1	28	40	1	0	0
Radices saturni ad eius h. partes						
Rx diluvii	3	6	41	54	41	0
Rx nabuch	3	41	17	37	44	10
Rx philippi						
Rx allexandri magni						
Rx cesaris						
Rx incarnationis	3	52	16	9	26	22
Rx alhigera						
Rx yesdegerd						
Rx alphonsi	4	10	34	41	41	0
Radices augium jovis ad eius h. p.						
Rx diluvii	1	46	44	52	48	0
Rx nabuch	2	21	20	58	51	10
Rx philippi						
Rx allexandri magni						
Rx cesaris						
Rx incarnationis	2	32	49	25	33	22
Rx alhigera						
Rx yesdegerd						
Rx alphonsi	2	50	42	42	48	0
Radices augium martis ad eius h. p.						
Rx diluvii	1	8	24	52	41	0
Rx nabuch	1	43	6	8	44	10
Rx philippi						
Rx allexandri						
Rx cesaris						
Rx incarnationis	1	54	4	35	26	22
Rx alhigera						
Rx yesdegerd						
Rx alphonsi	2	12	27	52	41	0
Radices veneris ad eius h. p.						
Rx diluvii	2	33	57	12	42	0

	S	G	M	2	3	4
Rx nabuch	2	18	33	28	44	10
Rx philippi						
Rx allexandri magni						
Rx cesaris						
Rx incarnationis	3	9	31	55	26	22
Rx alhigera						
Rx yesdegerd						
Rx alphonsi	3	27	52	12	41	0

Similiter notandum quod quamvis non ponatur tabula augium lune quia aux lune alio modo invenitur quam auges aliorum planetarum prout patebit infra &c.

Tabula augium et stellarum fixarum de primo intelligi partis

	1	2	3	4						
1	0	0	0	0	8	41	22	34	24	53
2	0	0	0	0	17	22	45	8	49	46
3	0	0	0	0	26	4	7	43	14	40
4	0	0	0	0	34	45	30	17	37	33
5	0	0	0	0	43	26	52	52	4	26
6	0	0	0	0	52	8	15	26	29	19
7	0	0	0	1	0	49	38	0	54	13
8	0	0	0	1	9	31	0	35	19	6
9	0	0	0	1	18	12	23	9	43	59
10	0	0	0	1	26	53	45	44	8	52
11	0	0	0	1	35	35	8	18	33	45
12	0	0	0	1	44	16	30	52	58	39
13	0	0	0	1	52	57	53	27	33	32
14	0	0	0	2	1	39	16	1	48	25
15	0	0	0	2	10	20	38	36	13	18
16	0	0	0	2	19	2	3	17	38	12
17	0	0	0	2	27	47	23	45	3	5
18	0	0	0	2	36	24	46	19	27	48
19	0	0	0	2	45	6	8	53	52	51
20	0	0	0	2	53	47	31	28	17	49
21	0	0	0	3	2	28	54	2	42	38
22	0	0	0	3	11	10	16	37	7	31
23	0	0	0	3	19	51	39	11	32	24
24	0	0	0	3	28	33	1	45	57	17
25	0	0	0	3	27	14	24	27	22	11

	1	2	3	4						
26	0	0	0	3	45	55	46	54	41	4
27	0	0	0	3	54	35	9	29	11	51
28	0	0	0	4	3	18	32	3	30	50
29	0	0	0	4	11	59	54	38	1	44
30	0	0	0	4	20	41	27	12	26	30
31	0	0	0	4	29	22	39	46	11	37
32	0	0	0	4	38	4	2	21	16	23
33	0	0	0	4	46	45	24	55	41	16
34	0	0	0	4	55	26	41	30	6	9
35	0	0	0	5	4	8	10	4	31	2
36	0	0	0	5	15	49	33	38	55	55
37	0	0	0	5	21	30	55	13	20	48
38	0	0	0	5	30	12	17	44	45	41
39	0	0	0	5	38	43	40	22	10	34
40	0	0	0	5	41	35	2	56	35	27
41	0	0	0	5	26	16	25	50	56	20
42	0	0	0	6	4	57	48	5	21	13
43	0	0	0	6	13	39	10	40	46	46
44	0	0	0	6	22	27	33	15	11	39
45	0	0	0	6	31	1	55	49	36	33
46	0	0	0	6	39	43	18	24	1	25
47	0	0	0	6	48	24	40	58	26	18
48	0	0	0	6	57	6	3	32	51	11
49	0	0	0	7	5	47	26	18	2	34
50	0	0	0	7	44	28	48	52	27	27
51	0	0	0	7	51	17	11	26	52	20
52	0	0	0	7	59	51	34	1	17	13
53	0	0	0	8	8	32	56	35	42	6
54	0	0	0	8	17	14	19	10	16	59
55	0	0	0	8	25	55	41	44	31	52
56	0	0	0	8	39	37	14	18	56	55
57	0	0	0	8	43	18	36	53	21	58
58	0	0	0	8	51	59	59	26	46	30
59	0	0	0	9	0	41	22	1	11	24
60	0	0	0	9	9	22	44	35	36	41

Modo dicendum est de partibus proportionalibus [illegible] ... [illegible] ... [illegible] appellantur [illegible] ... [illegible] tales [illegible] ... [illegible]

si fuerit 4a quarta et [illegible] pro addi-
cione vel subtractione [illegible] [illegible]
ad [illegible] et ceteris signacionibus
in quibus intrasti. Et quod sit
signacio in qualibet [illegible] et quo-
libet vel quomodo [illegible] sit capiendum
vel in aliquo arcu intratur
videlicet infra locum suo. Rursus
si equacio prima et 2a fuerunt
[illegible] tunc [illegible] quod [illegible]
[illegible] prima acceperis sicut vide-
licet et addi vel subtrahi o-
portet. Amplius [illegible]. Et in
aliquo arcu in quo intrare [illegible]
habueris [illegible] signaciones et
[illegible] tunc illas
signaciones [illegible] ad [illegible]
[illegible] in equacione vel [illegible]
[illegible] [illegible] dico quod
in directo [illegible] ubi [illegible]
in [illegible] et [illegible]
[illegible] [illegible] et
habebis equacionem quesitam. Simi-
liter [illegible] [illegible]
intra cum [illegible] intrante [illegible] oppor-
tebit tunc [illegible] intelligi qualis
[illegible] si [illegible] et ceteras
signaciones in aliqua arcu vel [illegible]
[illegible] [illegible] est [illegible]

[illegible] locum solis per [illegible]
[illegible] in [illegible] [illegible]
medium motum solis ad illud
tempus [illegible] sive [illegible]
motum et [illegible] Deinde
[illegible] augem solis [illegible]
[illegible] [illegible]
motu [illegible] solis sub titulo
augium [illegible] motu et [illegible]
[illegible] solis [illegible] Nota
[illegible] passis [illegible]
[illegible] ad medium motum solis
et tunc fiat subtractio. Et hec
regula [illegible] est in aliis
[illegible] [illegible]
subtrahas illud [illegible] et si [illegible]
passit esse [illegible]
integrali revolucione [illegible]
[illegible] [illegible] alias [illegible]

[illegible] quibus [illegible] quod
[illegible] solis [illegible]
cum [illegible] intitulatis [illegible]
equacionis solis quere in [illegible]
[illegible] et [illegible]
[illegible] et [illegible] quod [illegible]
cum tunc equacionem solis que sunt
in directo [illegible] et [illegible]
Deinde si fuerint aliqui [illegible]
[illegible] solis [illegible] et
[illegible] tunc [illegible] addere
[illegible] et [illegible]
[illegible] [illegible]
[illegible] addas vel subtrahas
sicut docent precedentes. [illegible]
[illegible] solis [illegible] quo
intrasti [illegible] sit plus [illegible]
[illegible] Si fuerit [illegible]
[illegible] tunc equacionem solis
[illegible] sub titulo
[illegible] motu solis [illegible]
et [illegible] motu [illegible]
Si [illegible] fuerit plus [illegible]
tunc [illegible] solis addas
ad medium motum solis et [illegible]
[illegible] in [illegible] [illegible]
[illegible] prima quod [illegible] alphon-
[illegible] arcu [illegible]
[illegible] plus [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
et [illegible] [illegible]
[illegible] [illegible]
[illegible] solis [illegible] ad [illegible]
et [illegible] [illegible] signaciones
que [illegible]
[illegible] alia [illegible]

[illegible] locum lune [illegible] in
[illegible] [illegible] lune
ad tempus [illegible]
[illegible] [illegible] ad [illegible]
[illegible] [illegible]
[illegible] medium motum
solis [illegible]
subtrahas [illegible] motu solis
[illegible] motu lune [illegible]

dupla et cum pervenerit erit centrum
lune qui est circulus deferens signorum
in utroque [illegible] inter augem ecentrici
lune et medium motum lune. Et in
hoc declaratur argumentum solis. Et causa
[illegible] duplicationis [illegible] est quoniam
centrum ecentrici lune medium solis
quod augis aliorum planetarum
[illegible] est. Et distantiam [illegible] signorum
elongationis a medio motu solis
infra diem naturalem per [illegible]
argumentum [illegible] luna elongatur a
medio motu solis ad ordinem
signorum et hoc est per 12 gradus 11
minuta 26 secunda et [illegible] sicut
sicut patet [illegible]. Et ad [illegible]
aliorum planetarum movetur ad
ordinem signorum [illegible]
[illegible] in ad [illegible]
[illegible] [illegible] [illegible] intra
ad centrum lune ad [illegible] [illegible]
lune [illegible] centri que fuit
in directo centri epicicli et similiter
ad [illegible] et intra [illegible] duplicatum
[illegible]. [illegible] centrum
lune intra [illegible] [illegible]
centri lune et [illegible] proportio que
in directo fuerunt accipias [illegible]
duplicatum [illegible] fuit [illegible]
Habita [illegible] centri lune
et [illegible] [illegible] centrum
utrum lune [illegible] [illegible] [illegible]
[illegible] 3 [illegible] [illegible]. Si
fuit [illegible] 3 [illegible] [illegible]
[illegible] in [illegible] ad [illegible]
argumentum lune [illegible]. Si at
centrum lune fuit plus 3 [illegible]
[illegible] [illegible] [illegible] ab ar[illegible]
medio [illegible] et [illegible] ad
[illegible] [illegible] [illegible] erit
[illegible] [illegible] argumentum lune
[illegible] quod et [illegible] argumentum [illegible]
intra [illegible] ad [illegible] [illegible]
lune et [illegible] argumentum que in directo
in [illegible] [illegible] et [illegible] ad
[illegible] [illegible] equatio argumenti
[illegible] equatio [illegible] loco lune
in epiciclo [illegible] epicicli [illegible]

centrum [illegible] et intrat ad [illegible] in
[illegible] fuit [illegible]. [illegible] cum
argumento equatio [illegible] diametri
[illegible] lune quod in directo [illegible]
[illegible] et [illegible] ad [illegible] in
[illegible] [illegible] [illegible] [illegible]
fuit. [illegible] [illegible] [illegible] ad [illegible]
[illegible] diametri [illegible] lune [illegible]
[illegible] [illegible] proportionem [illegible]
ad [illegible] diametri [illegible]
[illegible] proportionem [illegible] ad
[illegible]. Et [illegible] in [illegible] [illegible]
[illegible] [illegible] diametri
[illegible] lune [illegible] fuit [illegible]
et [illegible] [illegible] [illegible]
per [illegible] [illegible] [illegible]
proportionem [illegible] fuit [illegible]
ad [illegible] [illegible] [illegible]
[illegible] ad [illegible] [illegible] proportionem
[illegible]. Si fuit [illegible]
et [illegible] [illegible] fuit [illegible]
[illegible] [illegible] [illegible] 60 [illegible]
[illegible] [illegible] et [illegible] [illegible]
proportionem [illegible]. [illegible]
[illegible] [illegible] et [illegible]
[illegible] [illegible] erit [illegible]
[illegible] [illegible] [illegible] proportionem
[illegible] diametri [illegible] proportionem
[illegible] proportionem ad 60 [illegible]
est [illegible]. [illegible] [illegible]
proportionem [illegible] diametri [illegible] ad
[illegible] argumenti [illegible] [illegible] ad [illegible]
et [illegible] [illegible] argumenti [illegible]
equatio [illegible] equatio [illegible]
[illegible] lune [illegible] et [illegible]
[illegible] [illegible] ad [illegible] [illegible]
motu lune [illegible] [illegible] argumento
[illegible] fuit plus 3 [illegible] [illegible]
[illegible] [illegible] argumenti fuit [illegible]
3 [illegible] et [illegible] ad [illegible]
[illegible] [illegible] erit [illegible]
[illegible] lune in [illegible] [illegible]
[illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible] erit luna
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

Verum locum capitis draconis
invenire. Queras medium
motum capitis ad datum instans
ad quod scire volueris eius motum
quem subtrahe de 6 signis pro residuo
et illud quod remanebit erit verus
motus eius in 9a spera quem
computa sicut prius de planetis quia
sicut de eo [illegible] erit in [illegible]
[illegible] et totaliter [illegible]
per diametrum locus capitis oppositi
sciendum autem quod motus capitis
computatur apud antiquos secundum ordinem
signorum sed vero computatur apud
[illegible] ad [illegible]

Verum locum trium superiorum planetarum
invenire. Queras medium
motum planete cuius locum volueris
invenire verum et secundum canones
precedentes ad idem tempus queras medium
solis et ad idem tempus queras et
augem illius planete verum
motum quem [illegible] motibus
subtrahe medium motum illius
planete cuius [illegible] verum
motum solis [illegible] ad idem tempus
et remanebit medium argumentum eiusdem
planete. Ratio autem subtractionis
est ista. Quia quanto medius solis locus
distat a medio loco cuiuslibet trium superiorum
tanto quilibet trium superiorum
distat ab auge [illegible] epicicli.
Et propter hoc et quilibet trium superiorum
perambulat epiciclum suum in tanto
tempore in quanto medius motus solis
[illegible] circulum [illegible] que
[illegible] ad quem medius motus
planete eiusdem et [illegible]
[illegible] alium trium
superiorum [illegible] illi superior [illegible]
[illegible] est in auge media sui
epicicli. Et hec dicta sunt per Ptolomeum
in Almagesti suo [illegible]
[illegible] [illegible]
Habito itaque argumento medio sicut
prius dictum est subtrahas augem
eiusdem planete a medio motu

[illegible] et illud quod provenit erit centrum me-
dium eius secundum ipsum. Cum quibus talibus ordi-
natis intra cum centro medio ad tabulas
equationum [illegible] planete [illegible]
Et equatio centri quia inventa in li-
nea accipias intrando cum duplici in-
[illegible] si necesse fuerit. Et scribas eam
ad partem quia postea indigebis ea.
Eius facta scribe super eam equationem A
signo quia debet addi et [illegible] si centrum
medium ad quod eam invenisti fuerit plus
tribus signis vel scribe super eam mi-
nue pro signo minutorum si centrum medium
fuerit minus tribus signis. Si ergo debet addi-
tur addas eam addito medio cum
quo intrasti eam et subtrahas eandem ab
argumento medio prius scripto et habebis [illegible]
utrumque equatum. Si vero debet minui tunc
minuas eam a centro medio et addas
eam argumento medio et ibi remanebit
utrumque equatum. Cum quibus intra cum
centro equato ad tabulas equationis eiusdem
planete. Et minuta proportionalia que sunt
inventa cum eis capias et scribas a parte
et scribe ita cum titulo [illegible] minuta proportionalia
longiora si fuerint longiora vel propiora si fuerint
propiora quod hoc [illegible] [illegible] utrum
minus minutorum proportionalium addat vel dimi-
nuat. Si addit tunc propiora. Si vero dimi-
nuat tunc sunt longiora. Sed [illegible] regula
[illegible] [illegible] [illegible]
si minuta proportionalia fuerint accepta ad locum
ubi in linea minutorum proportionalium stat propior
et sunt longiora. Si vero [illegible] [illegible] locum et
sunt propiora. Equatis ergo minutis propiora [illegible]
ad cum titulo [illegible] ad argumentum equatum prius
scripto ad tabulas equationis eiusdem planete et
equationem argumenti que inventa fuerit accipe
et intra ad [illegible] introitu si oportebit
equationis [illegible] erit equata argumenti
[illegible] [illegible] ad [illegible] argumento equato
capias diversitatem diametri circuli brevis
in alta longitudine. Et capias eam in longitudine
longiori si minuta proportionalia fuerint longi-
ora. Vel in longitudine propiori si minuta
proportionalia fuerint propiora. Hoc ordine partes
diversitate diametri circuli brevis capias

parte proportionalem cum proportione minutorum
proportionalium ad 60. Si autem erat dempta in quinta
columna declinationis quam partem proportionalem eius adde ad
equationem argumenti primo coequatam si di-
versitas diametri erat propior circuli subtr-
ahas eandem partem ab equatione argumenti primo
coequata si diversitas diametri fuit ac-
cepta in longitudine longiori. Et illud quod
post subtractionem vel additionem provenit erit
equatio argumenti 2o coequata super quam scribe
.a. propter additionem si argumentum equatum
fuit minus tribus signis vel scribas super eam
.m. que est minuatur si argumentum equatum fuit
plus tribus signis. Deinde diligenter consideratis
diligenter ea scilicet equatione centri et equatione
argumenti si super utramque scribatur .a. iunge eas
simul et adde medio cursui planete.
Si vero scribatur super utramque .m. iunge utramque
et subtrahe de medio cursu planete. Si-
militer si super unam scribatur .a. et super alteram
.m. tunc subtrahe minorem equationem et si
super illud quod remansit scribatur .a. tunc ad-
datur ipsum ad medium motum planete. Si
vero scribatur .m. super tale residuum tunc subtra-
has tale residuum de medio cursu planete
prius invento et integre certificato. Et quod
post augmentum vel diminutionem remanserit
erit verus locus planete de quo operatur
et in nona figura etc.

Verum locum veneris et mercurii per
tabulas invenire. Equatis medium mo-
tum solis ad illud tempus ad quod verum
locum alicuius istorum volueris invenire quia
medius solis est et medius veneris et mercu-
rii. Et ad illud tempus equatis medium argumentum
istius de quo operaris cum tabulis suis et si-
militer augem eius. Secundo autem quod aux solis
et etiam aux veneris ... motibus ... est
omnino eadem ... et centrum ...
neque plus neque minus. Cum ... tamen quod quibus
... ut ... diversitatis
diametri in longitudine longiori vel propiori. Si
solummodo sit appropinquatio utrumque per minuta proportionalia
sit scriptum addatur vel minuatur. Si fuit scriptum
addatur vel tunc diversitas diametri circuli
post dicta erit addenda ad equationem argumenti secundo
coequatam sicut fuit accepta in longitudine

longiori vel propiori. Si vero invenies scriptum
minuatur tunc deductam quod diversitas diametri
vel prius erat sit minuenda ab equatione argumenti
secundo coequata. Item vero erat addenda ut prius sit scripta
in longitudine longiori vel propiori. Ergo dico quod
demonstratum est ita diligenter appropinquando per tabu-
las quod aliquando accidit error maior quam
in uno gradu eo quod ille due diversitates diametri
differunt aliquando plus quam ad unum gradum etc.

In introitu solis in arietem vel in quodcumque
signum vel gradum volueris invenire. Quia
prius 3o factum est de ingressu solis
in arietem per tabulas, docebis omnes
ingressus in eandem. Sed propter ea ...
... locum ... figurarum aliud tabule
docebas. Et ad tempus igitur quod estimas quod sol sit
prope arietem queratis verum locum solis per 3am
columnam ... tunc locum iam inventum
et si fuerint .0. in signis .0. in gradibus .0. in minutis .0.
in 2is tunc in eodem tempore intravit sol in primum
arietis. Si vero provenerint minus .6. signis
puta 4 signis et forte 7 8 vel aliter tunc in-
... 6 signis subtrahe de 6 signis et remanet
distantia solis ab ariete absque ... sole
procuranda et tempus introitus solis in arietem
... est futurum. Reduc itaque totam distantiam
ad minuta ... et scias deinde verum motum
solis in uno minuto diei quem scias sic ...
... in uno minuto diei ad talem medium
motum solis et medium motum que invenitur
... minuti invenies addatis super medium
motum solis ... quo iam ... invenisti et ... medio motu invenias ...
... et ... subtrahas ... prius
motu vero ... vero motu. Et quod rema-
net erit verus motus solis in uno minuto
diei que reducit ad illam ... ad quam
reduxisti distantiam prius inventam. Deinde per eas
divide distantiam reductam ad minuta super
motum solis verum in uno minuto diei ...
... ad minuta ad quod reduxisti distantiam
et in numero quotiens invenies minuta ...
que scribas ad partem. Si vero remanserit aliquid
... quod dividi non possit ...
... dividendum ... multiplica per
60 et divide ... prius et ...

[illegible] inveniemus 2a dierum similiter
ea ad locum suum. Verumptamen si aliquid
unciarum remanserit per dimissionem
tunc etiam multiplica per 60 et di-
vide per eadem quod plus et in uno
quod inveniemus 3a dierum sunt
ea per minuta diei et 2a secunda
quia et si aliquid remanserit per
dimissionem quod dividi non posset
de eo non sit cura quod opus sufficit
processum est. Quo facto vide minuta
dierum si aliqua inveneris et
si sunt plura quam 60 tunc per 60
partiendo unum dierum ad locum
dierum et reponendo remanent in loco
suo. Hoc igitur introitum ad hunc an-
num [illegible] tempus quod per dimissionem talis
invenisti addito super tempus suo
quo [illegible] quesivisti verum locum solis
et habebis tempus introitus solis
in arietem declinans in diebus
suis diebus [illegible]. Adque
tempus si placet querens verum lo-
cum solis et si in arietem [illegible]
[illegible] in [illegible] in [illegible]
et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sol [illegible] est ad [illegible]
punctum equinoctialis. Si vero ad
hunc [illegible] non pervenerit tunc [illegible]
[illegible] ponit [illegible] [illegible] in [illegible]
[illegible] si invenies quod [illegible]
intravit tunc aliud quod [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] motum solis in
uno minuto diei. [illegible] [illegible]
[illegible] est per dimissionem ponit super
dictum est et aliud quod invenitur
per dimissionem scilicet sol iam intravit
[illegible] est [illegible] [illegible] eo quo
[illegible] [illegible] verum locum solis
et per [illegible] [illegible] tempus
ingressus solis in arietem
declinans non [illegible]. [illegible]
si [illegible] [illegible] [illegible]
in aliquo alio loco tunc eo

secunda quarta tercia arietis usque principium
arietis et usque aliud locum ad
quem ingressum introitum eius
invenire et sua tabulam arietis.
Hoc facto querens verum locum solis
ad tempus quo estimas quod sol
sit in principio istius loci et si inveneris
[illegible] [illegible] arietis [illegible]
loco solis quod ponit est arietis
quod [illegible] [illegible] tunc [illegible]
eius introitum. Si vero anno sit locus
solis quam arietis [illegible] tunc solis
[illegible] verum locum solis [illegible] in
[illegible] [illegible] [illegible] quod intro-
itus est ad hunc [illegible] et
[illegible] tabula distanciam solis
ab illo loco ad quem querens
ingressum solis. Sed quia de stella
operacio ponit super dicte [illegible]
tum est quod sol [illegible] ad hunc
non pervenit. Si est locus solis
minor sit arietis quam arietis [illegible]
tunc eam intravit aliud
post dictum est de sole de aliis
temporibus [illegible] et facta
operacione cum diligencia [illegible]
[illegible] et sic est de [illegible] sole.

Tempus et veritatem
loci medii coniunctionis et
oppositionis solis et lune
invenire. Cum volueris mediam
coniunctionem solis invenire
vel coniunctionem aut quamvis mediam
oppositionem vel veram oppositionem [illegible]
invenire per 4am 2o. Item
ad eadem [illegible] invenire per [illegible]
[illegible]. Cum volueris [illegible]
lune [illegible]. Verum quere medium
[illegible] lune. Et et augem solis
[illegible] [illegible] [illegible] [illegible] solis
[illegible] [illegible] ad [illegible] [illegible]
[illegible] verum locum [illegible] solis [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] lune

in veritate signi cuius motus est Et [illegible]
[illegible] luna [illegible]
applicationis invenisti ad tabulas [illegible]
lune et accipias equationem argumenti in
directo existentem cum duplici [illegible]
si vero fuit [illegible]
[illegible]
[illegible] quod equationem argumenti ad [illegible]
[illegible] motu lune [illegible]
ad quod [illegible] invenisti fuit [illegible]
[illegible]
si fuit [illegible] additionem vel
[illegible]
[illegible] applicationis
[illegible]
[illegible] lune [illegible]
est et [illegible] in apparatione
[illegible]

[illegible]

fuit [illegible] quod [illegible]
[illegible] fuit [illegible]
[illegible]
[illegible] lune [illegible]
[illegible]
[illegible] applicationis
quod [illegible] est ad [illegible]
[illegible]
[illegible]
lune [illegible] fuit
[illegible]

[illegible]

[illegible]

[illegible]

mo[illegible] motu lune et solis [illegible]
sicut [illegible] [illegible] posita [illegible]
[illegible] eandem solis [illegible]
[illegible] et si volueris [illegible]
[illegible] et [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] [illegible] Si [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] ad [illegible] et [illegible]
[illegible] et [illegible]
et [illegible] [illegible] et [illegible]
plus [illegible] [illegible] illud quod est
[illegible] [illegible] [illegible]
vocatur [illegible] plus [illegible]
[illegible] [illegible] si plures [illegible]
[illegible] quam [illegible] [illegible] est
[illegible] [illegible] illud [illegible]
et [illegible] et vocatur [illegible]
[illegible] [illegible] in una
hora vel in uno [illegible] diei [illegible]
que [illegible] motu [illegible] in una hora
vel in uno [illegible] diei et [illegible]
[illegible] [illegible] [illegible]
[illegible] quantitate et istarum tabularum [illegible]
[illegible] quam [illegible] compositi [illegible] tabulis [illegible]
[illegible] in quibus [illegible] [illegible]
est [illegible] [illegible] tabule ptolomei
albategni et arzachelis [illegible] mete
[illegible] [illegible] motu [illegible] plus
in una hora vel in uno [illegible] diei [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
ad [illegible] planete [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] Sequitur capitulum

Utrum planeta sit stacionarius
directus vel retrogradus per tabulas
ad hoc factas indagare. Tabule
mediatibus quibus ista inveniuntur sunt due
quarum una est ordinata secundum tabulas equa-
tionum planetarum cuius titulus est stacio prima
et quod quanto centrum [illegible] Prima [illegible] [illegible] fuit cen-
trum tanto tanto maior est stacio prima [illegible]
planetarum et [illegible] quanto [illegible] tanto minor
[illegible] [illegible] est tabula que dicitur stacio prima in eo
quia invenitur quantitas stacionis prime
ad [illegible] [illegible] [illegible] [illegible]
est [illegible] tabula et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
Alia vero est tabula [illegible] [illegible] stacionis
prime et retrogradacionis [illegible] [illegible]
et similiter [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
maior stacionis prime que [illegible]
[illegible] [illegible] [illegible] [illegible] tabula
[illegible] tabula retrogradacionis planetarum
et [illegible] [illegible] [illegible] [illegible]
[illegible] tabulam [illegible] [illegible]
[illegible] [illegible] et [illegible] [illegible] planete
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] tabulas equacionum
[illegible] [illegible] et stacionem [illegible] [illegible]
[illegible] [illegible] et [illegible]
in lapide vel in pulvere [illegible]
[illegible] eandem stacionem primam [illegible]
[illegible] [illegible] et [illegible]
stacio [illegible] planete [illegible]
[illegible] [illegible] [illegible] stacionis
prime [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
si alicubi [illegible] plures [illegible] quam
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] stacioni [illegible] in [illegible] [illegible]
[illegible] planeta stacionarius [illegible]
[illegible] [illegible] retrogradari [illegible]

Si vero fuerit plus stacione prima et
minus 2a erit retrogradus et si centrum
equatum fuerit equale stacioni 2e erit
stacionarius stacione 2a scilicet ut dirigi
se incipiens. Si vero centrum equatum fuerit
plus stacione 2a vel minus prima erit
ipse planeta directus. Et si plus
vero fuerit retrogradus et medius
pre tempus ab inicio retrogradacionis
usque ad stacionem [illegible] minime
directus [illegible] quanto et [illegible] remanet
[illegible] et divide per centrum
arcus istius planete in uno die
et [illegible] ipsum [illegible] Quia
[illegible] in [illegible] fit [illegible] sub
[illegible] motu [illegible] planetarum
[illegible] in una die [illegible]
motu [illegible] in uno die et
[illegible] quanto [illegible] in uno die
in [illegible] pro medio motu qui
[illegible] arcus [illegible] motus arcus
in uno die [illegible] erit
[illegible] 7a [illegible] in [illegible]
[illegible] vero [illegible] 74 . 9 . [illegible]
[illegible] 7a [illegible] 4 [illegible]
[illegible] et [illegible] arcus
in uno die [illegible] in [illegible]
et in [illegible] et [illegible]
erunt [illegible] ab inicio retro-
gradacionis et si aliquid [illegible]
[illegible] vel [illegible]
[illegible] et divide [illegible]
[illegible] et [illegible] erunt [illegible]
[illegible] et [illegible]
et [illegible] et [illegible]
[illegible] que [illegible] ab inicio
retrogradacionis vel si placet
illud [illegible] in 24 2
[illegible] arcus
arcus in uno die et [illegible]
in [illegible] et [illegible]
[illegible] et [illegible] ab inicio
retrogradacionis. Si autem qui
incipit dirigi [illegible]
arcus centrum [illegible] stacionem 2am minime
[illegible] plus
et et [illegible] tempus [illegible] ad
directum. Si vero fuerit directus

et [illegible] que retrogradus
arcus [illegible] equinoccium
stacione et [illegible] divide [illegible]
[illegible] et [illegible] duplicatus
[illegible] in [illegible] 2a [illegible]
qui est [illegible] plane-
[illegible] arcus centro [illegible]
[illegible] et [illegible]
arcus [illegible] stacionis [illegible]
[illegible] 2e [illegible]
[illegible] arcus centrum planete [illegible]
[illegible] stacionem primam vel stacionem
2am [illegible] erit ipse
planeta stacionarius. Si vero centrum
fuerit minus stacione prima vel plus
stacione 2a erit ipse planeta
directus. Si [illegible] si fuerit plus
retrogradacionis [illegible] et minus
retrogradacionis [illegible] ipse erit
retrogradus. Reliqua et [illegible]
[illegible] prout [illegible] dictum est et
[illegible] Sciant aliqui
[illegible] motu [illegible] et
[illegible] in una die [illegible]
[illegible] planete [illegible]
[illegible] in [illegible] et
[illegible] planetarum [illegible] ad [illegible]
[illegible] vel [illegible] ad [illegible]
[illegible] pla-
netarum [illegible]
in [illegible] ad tempus quo [illegible]
[illegible] et [illegible] Item [illegible]
equatum [illegible] arcus [illegible] equatum
[illegible] prima [illegible]
istius planete [illegible]
[illegible] ad [illegible]
in [illegible] Tabula [illegible]
motuum planetarum in una die
[illegible] in [illegible]
[illegible] et si [illegible] in [illegible]
[illegible] in [illegible] in [illegible]
directo in [illegible] que in tabulis
motus centri et [illegible] planeta
[illegible] et [illegible] illud est
Si vero [illegible] in [illegible]
[illegible] in [illegible] prout
[illegible] in [illegible] et [illegible]
[illegible] in una [illegible] in [illegible]
[illegible] arcus [illegible] in [illegible]

et revolutio in [illegible] et motu quo in
directo cum in [illegible]
[illegible] motus [illegible]
[illegible] directus vel esta
[illegible] stationis retrogradi
[illegible] motus [illegible]
[illegible] centri [illegible]
[illegible] et [illegible]
est motus planete [illegible]
[illegible] die et planeta est
directus. Et [illegible] stationis
retrogradi et motus [illegible]
[illegible] motu centri [illegible]
[illegible] et [illegible] est [illegible]
planete [illegible] est directus
[illegible] motus [illegible]
[illegible] planeta est
retrogradus [illegible]
[illegible]
[illegible] retrogradus
Et [illegible] motus [illegible]
[illegible] planeta est
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] et [illegible]
[illegible] motus ad [illegible]
Et [illegible] motus [illegible]
planeta est directus [illegible]
est retrogradus. Et [illegible]
[illegible] planeta est [illegible]
[illegible] motus planete [illegible]
[illegible] die [illegible]
[illegible]
[illegible]
[illegible] motu [illegible]
[illegible]
planete et [illegible] motus
planete [illegible]
[illegible] motu [illegible]
planete [illegible] directus
et [illegible] planete
[illegible] retrogradus [illegible]
[illegible]
[illegible] planete [illegible]

et ad duos [illegible] est ad
[illegible]
Et [illegible] loco [illegible]
[illegible]
planete [illegible] motu
[illegible] loco pla
nete [illegible] directus
et ad [illegible] retrogradus
et [illegible]
[illegible] et [illegible]
[illegible] ad [illegible]
[illegible] et marte
et [illegible] directi et
[illegible]
[illegible] retrogradi [illegible]
[illegible] et [illegible] est in [illegible]
[illegible]
[illegible] est [illegible]
Et [illegible] in motu
[illegible]
[illegible] planetis
[illegible] et [illegible]
[illegible] in motu [illegible]
[illegible] planetarum
et [illegible] in [illegible]
[illegible]
[illegible] et [illegible]
[illegible] die est [illegible]
[illegible] et [illegible]
[illegible] motu
[illegible] in directo [illegible]
[illegible] et [illegible]
[illegible] ad [illegible]
[illegible]
[illegible]
[illegible] est et [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] planetarum [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] planete [illegible]
et [illegible]

cuius est centrum eo quod aparens sicut
prius dictum est. Si vero longius fuerit
[illegible] et ipse directus stacionis at
retrogradus tunc semper [illegible] retro-
gradus primum ad idem tempus quamvis
non locum eius et si quamvis [illegible]
est. Si vero duo epicicli longitudinum
eius a videtur cuius est longitudo ipsa
aparens qui non ea semper prius dictum
est. Si vero ambo fuerint [illegible]
et longitudo fuerit [illegible] tunc [illegible]
[illegible] tempus quo [illegible] fuerint [illegible]
directi et ad illud tempus [illegible]
non locum semper prius dictum est.
Quando planeta longius fuerit primum et
ipse [illegible] retrogradus. Quando autem
directus tunc [illegible] [illegible]
[illegible] [illegible] quando
[illegible] et [illegible] [illegible] longi-
[illegible] [illegible] et [illegible]
longitudinis [illegible] quo aparens est semper
directus prius. Si vero longius fuerit
primum et [illegible] retrogradus et [illegible]
[illegible] fuerit retrogradi [illegible]
[illegible] [illegible] quo semper erit
directus et ad illud tempus quo
[illegible] non locum et [illegible]
locum [illegible] [illegible] [illegible]
non locum eo quo longitudinis aparens
[illegible] dictum est prius. Quando at
[illegible] ad tempus [illegible] quadrature [illegible]
[illegible] tabulis in [illegible] [illegible]
quando non locum eius quamvis
quamvis [illegible] [illegible]
sufficit. Si vero [illegible] [illegible]
[illegible] aparens est [illegible] in
[illegible] tempus [illegible] quamvis [illegible]
[illegible] et [illegible] [illegible] in
quo [illegible] [illegible] [illegible]
[illegible] et [illegible] aparens semper prius
et [illegible] est [illegible] [illegible]
[illegible] fuerint 2e quadrature
[illegible] primum et [illegible] [illegible]
[illegible] quando [illegible]
retrogradus [illegible] semper esset
directus. [illegible] at retrogradus
et stacionis semper [illegible] quo [illegible]
[illegible] directus [illegible] [illegible]
semper fuit retrogradus et [illegible]

[illegible] 2a quadrature prima post
coniunctionem [illegible]. Et [illegible]
in 3a quadratura [illegible] fuerit
directus [illegible]. Ex [illegible]
quadrature que fit de [illegible] in
2a [illegible] [illegible] est [illegible]
[illegible] quia 2a et 3a [illegible] 2
[illegible] [illegible]
colligere [illegible] [illegible]
[illegible] prius dicta. Et prout dictum
est de quadratura [illegible] planetarum
illorum [illegible] est de quadraturis
[illegible] aliorum [illegible] ut est
quadraturis aliorum planetarum
[illegible] quas habent [illegible]
[illegible] et [illegible] opposicionis
[illegible]. Et ut melius intelligatur
[illegible] quadraturas primam 2am
[illegible] [illegible] aliquam [illegible]
[illegible] in [illegible] [illegible]
[illegible] [illegible]. Dico
[illegible] triplicitas [illegible] [illegible]
4a [illegible] tabula [illegible]
adequationem. Et quadraturas ali-
[illegible] tabulis [illegible]
et [illegible] quarta [illegible]
[illegible] [illegible] [illegible]
[illegible] in eius triplicitate
[illegible] quadraturis in
[illegible] triplicitate fuerunt [illegible]
[illegible] quadraturas [illegible]
[illegible] [illegible]
[illegible] [illegible] autem
[illegible] [illegible]
[illegible]. Primum et [illegible]
[illegible] [illegible] 2a [illegible] 2a
[illegible] [illegible]
quadraturas [illegible] 2a [illegible]
et in [illegible] quadra-
turas [illegible] in aliqua triplici-
tate est [illegible] 2a autem ~~[illegible]~~
~~[illegible]~~
~~[illegible]~~
[illegible] triplicitatis [illegible]
4 [illegible] 2a [illegible] in 4
que est [illegible] triplicitatis et [illegible]
[illegible] in [illegible] quadraturis [illegible]
[illegible] triplicitatis et [illegible]

ad quarum et hec est forte causa cur pola-
nos et [illegible] quibusdam alie-
nigenis [illegible] quia signis in quo
[illegible] 2 gradus 18 minuta 21 secunda [illegible]
quousque fuerunt 10 quarum ab-
fuerunt anni [illegible] eiusdem triplici-
tatis et nulla fuerunt in triplicitate
in medio [illegible] Et ideo [illegible]
[illegible] ad [illegible] quod
sit aliqua quarum in alia triplicitate
[illegible] Dico igitur quod earum
[illegible] quarum [illegible]
[illegible] et [illegible]
[illegible] et [illegible] que est a prin-
cipio in quo est quarum usque ad
[illegible] locum quarum [illegible]
[illegible] 48 minuta 21 secunda Et [illegible]
[illegible]
[illegible] triplicitate [illegible] ad [illegible]
[illegible] ad [illegible] et
[illegible]
[illegible] principium [illegible] quarum eiusdem
triplicitatis Et [illegible] maiorem [illegible]
[illegible]
quarum [illegible] que fuerunt
[illegible] usque ad tempus [illegible]
[illegible] anno domini 1364 et usque
quo [illegible] 90 quarum
[illegible] Dico igitur quod forte
[illegible] nativitatem [illegible]
et [illegible] quarum circa prin-
[illegible] medio motu [illegible]
[illegible] quarum in [illegible] triplicitate est
et hec est locus medius quarum
[illegible]
12 11 42 [illegible] reducta 12
reducta 1 17 10 39 30 11 71
remansit in eadem triplicitate usque ad
annum domini 1100 incompletum et anno
domini 143 incompleto 18 diebus septembris
completa fuerat prima quarum in triplici-
tate et hec erat post nativitatem christi et
hic est locus quarum [illegible] 31 74 71
23 [illegible] reducta 0.19.33.4
47.9.19.7 [illegible] in 10 quarum fuit
et in [illegible] usque ad annum
domini 392 incompletum ita quod in predicta

anno et 23 diebus aprilis fuerat prima
quarum in triplicitate [illegible] et erat 2 post na-
tivitatem christi et hic est locus quarum medie
3 138 30 6 [illegible] reducta
0.39.42.6.00 [illegible] anno domini 790
mutavit se ad triplicitatem [illegible]
in predicto anno et 26 die novembris
completa [illegible] 9 [illegible] in eadem triplicitate et hic
erat 30 90 post nativitatem [illegible] locus quarum
medie 1 31 22 8 36 [illegible]
reducta 0 74 71 2 14 72 14
Postea anno domini 189 incompleto et
[illegible] completo reversa fuit ad triplicitatem
[illegible] in predicto anno
[illegible] completo et erat [illegible] post [illegible] locus
quarum 0 1 7 41 [illegible] reduc-
ta 1 19 71 28 29 43 Demum [illegible] anno
domini 988 mutavit se ad triplicitatem [illegible]
[illegible] in ea quarum [illegible] in anno
predicto 2 die februarii completa et hic
erat 70 post nativitatem [illegible] locus quarum
medius 4 30 40 27 [illegible]
reducta 1 44 8 74 44 27 Amplius
post hec anno domini 1186 mutavit se ad
triplicitatem [illegible]
[illegible] triplicitatis in
anno predicto 6 die septembris completa
et hec erat 60 post [illegible] locus medius
quarum 0 33 4 [illegible] reducta
2 0 11 70 79 26 [illegible] anno
domini 1387 mutavit se ad triplicitatem
[illegible] prima quarum in
anno predicto 11a die aprilis completa
et hec erat 10 post [illegible] locus medius
quarum 1 30 16 43 [illegible]
ducta 2 20 25 41 19 18 Demum
anno domini 1783 incompleto iterum re-
vertitur ad triplicitatem [illegible]
in eadem triplicitate [illegible] quarum in anno
prefato in 14 die [illegible] completo et hic
80 post [illegible] locus medius quarum 0

20 71 [illegible] cum per reductam 2 40
37 43 29 9 et sic erunt a principio
triplicitatis 11 quotiens reliquum
unum ultra eiusdem triplicitatis
anno domini 1482 in completo 18
die Julii completo et sic erit ergo
post predictam [illegible] magnus ultime
fuit 11ma quotiens illius triplicitatis
4 29 47 0 [illegible] cum per reductam
3 0 44 39 44 1 [illegible] quam
[illegible] que postquam [illegible] sunt in
[illegible] libro suo de instrumento
[illegible] ad aliquam tri-
plicitatem fuit facta prius in
primo signo in signo quodcumque [illegible]
[illegible] apud signum et [illegible]
16 [illegible] in fine quod [illegible]
in eadem triplicitate accidunt 11 quo-
tiens [illegible] accidit
in quotiens [illegible] super sit
[illegible] in primo signo quod in aliis
triplicitatibus [illegible] 10 [illegible]
Coniunctionis [illegible] quotiens
[illegible] ad
aliquam triplicitatem quam [illegible]
[illegible] anno domini 7 a 1 quo
[illegible] et [illegible] signis [illegible]
[illegible] passus [illegible]
in Albumasar et in [illegible] triplic-
[illegible]
[illegible] triplicitatis [illegible] ad
[illegible]
ad [illegible] triplicitatem [illegible]
anno domini [illegible] patet [illegible]
[illegible] in [illegible]
[illegible] 1304 in completo [illegible]
[illegible] et [illegible] quando
[illegible] in fine 8 [illegible]
triplicitate [illegible]
in [illegible] quod [illegible]
[illegible] quotiens anno
domini 64 [illegible]
[illegible] quod [illegible]
[illegible] quotiens [illegible] triplici-
tates 460 annis et 9 16

9 16

[illegible] in quibus triplicitatibus fuit
[illegible] quotiens et [illegible]
[illegible] 20 [illegible]
[illegible] est [illegible]
[illegible] stelle
[illegible] ad [illegible]
[illegible] quod [illegible]
[illegible] quotiens [illegible]
[illegible]
[illegible]

[illegible] stellarum fixarum ad [illegible]
[illegible] tabulas ad
[illegible] in [illegible]
[illegible] loca [illegible]
ad aliquod tempus [illegible]
[illegible] tempus [illegible]
[illegible] tempus [illegible]
[illegible] ad [illegible] 3 2 1 [illegible]
[illegible] et [illegible] et [illegible]
ad [illegible] augem
[illegible] stellarum fixarum [illegible]
[illegible] ad [illegible]
[illegible] 20 [illegible]
[illegible] aliquid [illegible] et
[illegible] 4 [illegible]
ad [illegible] stelle
fixe et [illegible]
[illegible] ad [illegible]
[illegible] quirat [illegible]
[illegible] tempus [illegible]
[illegible] stelle
fixe et [illegible] in [illegible]
[illegible] augem
planetarum et stelle fixe [illegible]
[illegible] ipse [illegible]
[illegible] super [illegible]
[illegible] et [illegible] que
in [illegible] et
[illegible] in
[illegible] augem [illegible] modus [illegible]
[illegible] stellarum fixarum [illegible]
[illegible] loca planetarum
[illegible] modus [illegible] quod [illegible]
[illegible] quod [illegible]
[illegible] ad 4 3 2 1 [illegible]
[illegible] facta intra

[illegible] motus augium est duplex motus [illegible] scilicet accessus et recessus et motus
[illegible] octave spere [illegible] ad quod [illegible] in [illegible] tabulas scilicet talis motus
motus accessus et recessus et talis motus [illegible] quod in tabulis [illegible] motus [illegible]
[illegible] sunt [illegible] per tabulas [illegible]

in aliis quam 27° ad talem augium
et stellarum fixarum partem inter
tabulas alfonsii [illegible] modo
potest dici [illegible] ista [illegible]
[illegible] reliqua et quo
modo quod inveniatur [illegible] in
sua tabula [illegible] et in [illegible]
[illegible] in [illegible] talium accessus et
recessus [illegible] et [illegible] ad
[illegible] motus 8ve spere et [illegible]
[illegible] 8ve spere in suo proprio
[illegible] Circulo facto [illegible]
[illegible] [illegible] ad talem
[illegible] motus accessus et recessus
et [illegible] quod [illegible]
[illegible] et [illegible] ad [illegible] et
ultra ad duplicem [illegible]
apparet [illegible] 8ve spere sit plus [illegible]
[illegible] Si [illegible] ad [illegible]
[illegible] 8ve spere ad motum
augium et stellarum fixarum [illegible]
[illegible] et [illegible]
motus ad [illegible] ad [illegible]
[illegible] ad [illegible] ad
[illegible] augium planetarum
[illegible] in tabulis alfonsii Si
vero fuerit plus [illegible]
[illegible] per [illegible]
a motu augium et stellarum fixarum
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] locum [illegible]
[illegible] planetarum in alfonsii
Si vero [illegible] passus
[illegible] a motu augium et
[illegible] augium planetarum et
[illegible] ad
motum augium et stellarum fixarum
[illegible] et ad [illegible]
[illegible] et [illegible] in tabula [illegible]
[illegible] Si [illegible]
[illegible] et [illegible]
[illegible] plus quam 90 [illegible]

[illegible] quam 180 [illegible] est
180 et [illegible] ultra
plus quam 180 et [illegible]
quam 270 [illegible] 180
et [illegible] et
[illegible] fuerit plus 270 [illegible]
[illegible] 360 [illegible] de 360
et [illegible]
Et [illegible] 8ve spere [illegible]
aliud est quod [illegible] 8ve
spere [illegible] capitis arietis
8ve spere et [illegible]
in [illegible] spera et [illegible] tabulis
[illegible] augium [illegible] est [illegible]
augium [illegible] motu 8ve spere
[illegible]
et [illegible]
8ve spere [illegible] in [illegible]
ad [illegible] partem
[illegible] stelle fixe 27 [illegible]
alfonsii [illegible] tabulis
[illegible] locum in 9na spera
[illegible] et [illegible]
[illegible] Subtrahatur [illegible]
[illegible] 8ve spere quod [illegible]
[illegible] alicuius
[illegible] stelle fixe et habebitur
locum [illegible] motu 8ve
spere [illegible] capitis
[illegible] sicut [illegible] dictum est
[illegible] augium planetarum in
[illegible] et [illegible]
Et [illegible] in tabula [illegible]
[illegible] 8ve spere in tabulis [illegible]
motus [illegible] est [illegible] 8ve spere
in [illegible] ad quem planetarum
[illegible] in [illegible]
[illegible] motus est [illegible]
[illegible] 8ve spere 27
[illegible] Sed [illegible]
[illegible] locum [illegible] stellarum [illegible]
[illegible] planetarum
[illegible]
[illegible] stelle [illegible]

et ab prudentibus orbem signorum
ad angulos rectos secantes. Et
longitudo autem dicitur est arcus eclip-
tice circuli interceptus inter eclipti-
cam et circulum stelle que latitudo
est principium in [illegible]
et motus accessus et recessus
[illegible] prout
principium est [illegible]

Quoniam autem planete
cum quibus stellarum
comparatur [illegible]
longitudinis stelle [illegible]
et motus longitudinis planete ad
[illegible] distancie in [illegible]
[illegible] et inde [illegible]
[illegible] quod [illegible] planete
[illegible] dicta est [illegible]
[illegible] stelle [illegible]
[illegible] et [illegible]
[illegible] ma-
lo [illegible] stel-

loca superius ad annum domini 1340
completum et hic est ad 27 annum
[illegible] quarum 17 sunt ad
[illegible] et 47 de 2a et
[illegible] multi posuerunt stellas
[illegible] et ab
[illegible] Ptholomeus plus
[illegible] quam [illegible]
[illegible] alius et [illegible]
[illegible] in hoc [illegible]
[illegible]
[illegible] per [illegible]
[illegible] et [illegible]
stellarum [illegible] instrumentorum [illegible]
astronomie que sunt 1022 et
[illegible] que sunt
28 et [illegible]
[illegible] que [illegible]
[illegible] et [illegible]
[illegible] accessus et recessus
[illegible] auxilio dei [illegible] est
[illegible] stellarum 60 [illegible]

Nomina	Stellarum	Longitudo		Latitudo		Pars	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]		
Aries	mirach	7	0	14	0	[illegible]	
	[illegible]	22	0	32	30	[illegible]	magnitudo
Taurus	[illegible]	6	0	1	0	[illegible]	
	aldebaran	29	0	14	20	[illegible]	
Gemini	rigel	11	0	10	0	[illegible]	
	alhaiot	6	0	43	28	[illegible]	
Cancer	alhabor	3	0	17	30	[illegible]	
	algomeysa	13	0	7	4	[illegible]	
	alphard	9	0	17	30	[illegible]	
Leo	[illegible]	18	0	22	8	[illegible]	
	cor leonis	19	27	17	71	[illegible]	
	[illegible]	20	0	27	0	[illegible]	
Virgo	corvus	1	0	7	30	[illegible]	latitudo
	algorab	22	0	13	30	[illegible]	
	[illegible]	17	0	19	30	[illegible]	
Libra	alchimech	23	70	24	18	[illegible]	longitudo
	alramech	28	0	2	0	[illegible]	
Scorpio	[illegible]	18	0	13	0	[illegible]	
	alphecca	2	0	[illegible]	0	[illegible]	
Sagittarius	[illegible]	21	17	7	0	[illegible]	
	[illegible]	20	0	70	0	[illegible]	
Capricornus	[illegible]	21	17	7	0	[illegible]	
Aquarius	[illegible]	10	0	40	0	[illegible]	
	[illegible]	30	0	19	0	[illegible]	
Pisces	[illegible]	6	0	24	0	[illegible]	
	[illegible]	31	0	22	0	[illegible]	

Latitudinem lune per tabulas ad hoc factas invenire. Superius determinatum est de motu longitudinis planetarum et quibusdam passionibus eorum. Nunc restat tractandum de motu latitudinum et primo de luna postea de aliis planetis. Dico ergo quod si latitudinem intendis invenire, tunc facias verum locum capitis draconis pro hora tua quem de vero loco lune minue vel medium motum vel verum motum (capitis) lune et residuum erit argumentum latitudinis lune cum quo intra tabulas latitudinis lune et latitudinem quam in directo inveneris accipias et scias quod quando intras cum duplici introitu sicut necesse fuit sicut dictum est alibi. Sed nota quod due sunt tabule latitudinis lune quarum una est scripta in tabulis equationis lune immediate post equationem argumenti et intra in eam plenius cum numero qui pertinet ad omnes equationes ibidem positas sicut superius dictum est. Alia tabula est per se quasi compendium ponens in suo capite et extremitate ipsa signa sunt descripta ita quod in capite tabule sunt signa a 0 usque ad 5 signa. Sed in extremitate ponuntur signa a 6 usque in 11 et linee numeri sunt due que scripte sunt per gradus tantum ita quod si numerus signorum argumenti latitudinis inveniatur in capite tabule, quod tunc numerus graduum argumenti queratur in prima linea numeri. Sed si inveniuntur signa argumenti latitudinis lune in pede tabule quod tunc gradus queratur in 2a linea numeri. Exemplum nota quod si argumentum latitudinis fuit a 0 in signis usque ad 6 signa completa latitudo est a[quilonaris]. Si vero a 6 signis usque ad 12 meridionalis. Et si argumentum latitudinis fuit a 0 signis usque ad 3 signa completa latitudo est ascendens et a 3 usque in 6 aquilonaris descendens a 6 in 9 meridionalis descendens et a 9 in 12 meridionalis ascendens. Et intelligendum quod circa illas tabulas argumenti latitudinis lune dicatur circulus zodiaci incipiens in loco capitis draconis et locus lune computatus secundum successionem signorum, secundum Ptholomeum est circulus zodiaci incipiens inter locum maximum latitudinis et [illegible] lune et locum lune [illegible].

Latitudinem Saturni Iovis et Martis invenire. Si ergo centrum et argumentum equata per 5am [illegible] et [illegible] scribe. Deinde centro Saturni equato 10 gradus adde et centro Iovis equato 20 gradus [illegible] minue, centrum vero Martis sicut est dimitte. Et cum eo quod provenit ... intra tabulas latitudinis illorum planetarum ingrediendo cum argumento per 5 [illegible] et intra [illegible] que in eius directo in tabula est ... scribe ad partem, postquam cum centro equato eiusdem planete eas lineas numeri ingredere et latitudinem accipe vel [illegible] quam in directo eiusdem planete latitudinem quam inveneris accipe et scribe ad partem. Notandum autem quod tabula illa divisa est in duas partes quarum una dicitur superior alia inferior. Superior enim a principio tabule usque ad 90 gradus dicitur superior, reliqua inferior. Consideraverunt igitur si cum centro equato intrasti ad partem superiorem tabule tunc accipe cum argumento equato [illegible] latitudinem [illegible]. Si vero cum centro equato intrasti ad partem inferiorem tabule tunc cum argumento equato accipe [illegible] minute [illegible] accipe [illegible] latitudinem [illegible] vel aliam partem proportionalem [illegible] proportionaliter ad 60 [illegible] et illud quod provenit erit latitudo planete in parte in qua invenitur eam. Et nota quod si centrum equatum et argumentum equatum cum quo intrasti non possis precise invenire in tabulis tunc [illegible] propinquiori sicut dictum est in [illegible] inveniendo motu lune in prima [illegible]. Sed pro maiori evidentia dictorum et dicendorum aliqua sunt que intelligenda de motibus latitudinum planetarum. Dico ergo quod sol nullam habet latitudinem ab ecliptica, luna vero habet latitudinem sicut alii quinque planete, qui cum motu suo motu centri epicycli ab ecliptica in circulo [illegible] polos excentrici sui et non super polos zodiaci et secat superficies in duobus punctis zodiaci oppositis. Et [illegible] cum duo sunt in punctis oppositis a zodiaco secato et declinat punctus deferentis a superficie zodiaci in duabus partibus scilicet [illegible] et meridiem et est quantitas sue maxime declinationis semper invariabilis et illa intersectio in qua incipit declinare luna ad aquilonem dicitur caput draconis sive genzahar. Et alia intersectio in qua incipit declinare luna ad meridiem dicitur cauda draconis. Convenit autem ille intersectiones continue abiciente in [illegible] zodiaci [illegible] et [illegible] et [illegible] intersectiones quamdiu [illegible] [illegible] modo conspicimus in celo equalis deferentis lune in magnitudine et cum [illegible] superficie deferentis in ecliptica zodiaci et est superficies sui epicycli [illegible] superficie in superficie deferentis quam [illegible] luna non

hec tamen ultima declinacio que est ii
declinacionem deferentis ab ecliptica habent
et declinacionem quam preuenit prima declinacio
deferentis habent tamen superiores planete que ad
modum lune inuariabilem sunt eius ma-
ximam quantitatem intersectiones eorum suorum
deferencium non mouentur sicut intersectiones
lune nec enim mouentur nisi motu 8e
spere et dicatur semper sunt due intersectio-
nibus lune. Prima intersectio que dicitur
geuzahar in qua centrum epicicli maxime
declinatur ad austrum et locus qui geuzahar
saturni distans a loco oppositi augis eius aparte
eius id est secundum successionem signorum per 50
gradus et eius alia intersectio a loco augis
per 50 gradus distat aparte eius. Est locus
deferentis maxime declinacionis iuxta aute-
iouis parte ipsius austri distans a loco augis
deferentis aparte retro per 40 gradus et locus partis
deferentis maxime declinacionis ad meridiem
distat a loco oppositi augis per 40 gradus aparte retro
et propterea semper locus maxime declinacionis
deferentis qui equaliter distat ab utrisque inter-
sectionibus locus autem geuzahar a loco augis
sui deferentis distat per 40 gradus aparte retro
quare locus partis sui deferentis que maxime
declinat ad austrum est distans a loco augis
aparte ante per 50 gradus locus vero geuzahar
martis per 90 gradus distat a loco sue augis
deferentis aparte retro et ideo locus illius partis
sui deferentis que maxime declinat ad
austrum in loco augis deferentis. Latitudines
horum trium planetarum scripte in eorum tabula
posite sunt ac si semper centrum epicicli
esset in illo loco deferentis qui maxime
declinat ad austrum. Est autem quidam alius
motus latitudinis horum trium planetarum saturni
iouis et martis et est motus ille per quem
mouentur superior medietas epicicli et
inferior declinando se a superficie deferentis
contrarias partes scilicet aquilonis et meridiei et
dicitur ille motus declinacionis uel incli-
nacionis epicicli. Est autem ille motus
super diametrum qui transit per ambo puncta
longitudinis medie epicicli que quidem puncta
per 90 gradus distant ab auge media epicicli
et iste diametrus est equidistans superficiei
ecliptice nisi dum sunt centra epiciclorum
nodorum intersectionis nec tunc ipsa est in
superficie ecliptice tamen cum illa est incli-
nacio. Sed maxima est hec declinacio
cum centrum epicicli sunt in locis intermediis
duorum nodorum et est propter inclinacionem motus
inferius epicicli a superficie deferentis ad

partem illam ad quam declinat a super-
ficie ecliptice medietas ipsa deferentis
in qua est centrum epicicli et ideo quando
centrum epicicli sunt circa nodos planeta eius
in superiori medietate epicicli est inter
duas superficies scilicet ecliptice et sui deferentis.
Veneris vero et mercurii 3 sunt
latitudines quarum prima latitudo est de-
clinacionis superficiei deferentis a super-
ficie ecliptica sicut est in aliis nisi
quod maxima eius declinacio est variabilis.
Illa enim pars deferentis que tunc maxime
declinat ad aquilonem ab ecliptica infra
medietatem anni ipsa tunc declinat
ad meridiem et infra 3 menses et
infra quartam partem sue maxime declinacionis
ad austrum ipsa venit directe sub ecliptica
et tunc orbis deferentis nullam habet
latitudinem nec tunc eius superficies
est equalis superficiei ecliptice. Loca
autem intersectionis deferentis cum ecliptica
que sunt in deferenti habent latitudines
ab ecliptica sunt in longitudinibus mediis
deferentis partes deferentis que longitudines
medie distant per 90 gradus ab auge
deferentis et ab opposito augis deferentis. Et
quando centrum epicicli veneris et mercurii
est in longitudinibus mediis tunc eius
deferens nullam habet latitudinem et ideo loca deferentis
que maxime declinant ab ecliptica
erunt in auge et in opposito augis deferentis
et dum in istis locis sunt centra epiciclorum
veneris et mercurii tunc eorum locorum
maxima est declinacio ab ecliptica
et cum centrum epicicli veneris sunt in
aliquo duorum nodorum tunc erit maxima
declinacionis ad aquilonem illius
medietatis sui deferentis que sequitur
ipsum nodum secundum successionem signorum
id est illius medietatis ad quam tendit tunc
centrum epicicli. Sed econtrario illa medietas
deferentis mercurii semper declinat ad meridiem
et ideo semper quando est prope centrum epicicli
veneris quasi numquam declinat ad meridiem
ad habent autem veneris et mercurii duos
alios motus latitudinis preuenientes propter
epicicli quorum primus est quo una superior
medietas epicicli et inferior declinando
se a superficie declinantis contrarias partes scilicet aqui-
lonis et meridiei sicut est in tribus
superioribus planetis preterquam quod diametrus
epicicli utriusque transit per ambas longitudines
medias epicicli super quam fit ille motus
non semper equedistat ecliptice. Est autem
maxima declinacio superioris medietatis

epicicli ad meridiem cum centrum epicicli
fuerit in loco quodam deferentis qui distat
a loco augis per 60 gradus aequatos vel recto
et hoc deveniet in medio vel distat per
90 gradus aequatos vel 270 aequate et recto
maxima vero declinatio superioris
medietatis epicicli ad aquilonem est in
quodam puncto deferentis opposito ei in
quo est maxima declinatio ad
meridiem. Cum vero centrum epicicli
utrobique fuerit in locis intermediis in
quibus sunt hee maxime declinationes
epicicli nulla erit declinatio. Hee vero
fiunt dyametro epicicli transeunte per auge-
mediam epicicli per omnibus ... est in superficie
deferentis. Est autem alius motus eius quo
longitudines medie epicicli moventur decli-
nando se a superficie deferentis utrobique
parte scilicet aquilonis et meridiei et dicitur
motus reflexionis epicicli preter eius motum
revolutionis et iste est motus proprie
dyametri epicicli qui transit per augem
mediam epicicli et per omnibus ... Est autem
maxima reflexio medietatis anterioris
epicicli ad aquilonem cum centrum epicicli fuerit
in auge deferentis et hec deveniet. Secundo et
maxime cum fuerit motu augis deferentis
et contrario opposito est maxima reflexio eius-
dem partis anterioris utrobique ad meridiem.
Cum centrum vero locis intermediis nulla est
reflexio. Tunc enim dyameter qui transit
per ambo puncta longitudinum mediarum
epicicli erit in superficie deferentis. Est autem
epicicli auctor que dicta sunt ... ymagi-
natione fortius intelligere et hec de latitudi-
nibus planetarum sufficiant. Sequitur

Latitudinem veneris per tabulam
invenire. Equabis eius centrum et ar-
gumentum et centrum aequatum et ...
quod est post finem deinde cum ipso
centro in lineis numeri tale veneris intra
et accipe quod inveneris in directo in tabula
declinationis et reflexionis. Et unumquodque
quod est seorsum scribe. Post hoc centro veneris
60 gradus adde quod si per additionem pervenerit
usque ad 360 gradus prius 360 ingredere cum
tabulas veneris et quod in eius directo
inveneris deinde proportionis minute et scribe
deinde accipe partem proportionalem declinationis
prius accepte secundum proportionem minutorum proportionalium
ad 60 secundum quantitatem ... et hoc erit prima latitudo
eius equata que provenit ex declinatione
epicicli et scribe eam. Si centrum argumentum primi 2 arcu-
tum quo equatus est et centrum primi cum
suo addito fuerit in eadem parte scilicet 1 si ambe
fuerint in medietate superiori vel ambo
in medietate inferiori erit ipsa latitudo equata
meridiana et si unum illorum fuerit in una
medietate et aliud in alia erit ipsa latitudo
aquilonaris et per eam partem cognoscas et scribe
super eam nomen sue partis. Si autem pla-
netas superiores tam in centro quam argumento
cum fuerit centrum et argumentum a in signis et 3 gradus
usque ad 3 signa completa vel a 9 signis
completis usque ad 12 completa dicitur cum
fuerit a 3 signis usque ad 9. Deinde cum sim-
plici centro veneris prius servato cum quo
prius fecisti additionem 60 graduum ad lineas
numeri tale ingredere et quod in eius directo
inveneris deinde proportionis minutorum in duobus locis
seorsum scribe. Deinde accipe partem proportionalem
ex reflexione prius servata secundum proportionem
illorum minutorum ad 60 secundum quantitatem ... et hoc
erit reflexio equata et scribe eam sicut in
tabula. Tunc si centrum primum ... veneris
post minuta proportionalia ... fuerint
in medietate superiori et ... fuerit argumentum plus
quam minus 180 gradus erit reflexio equata
... si centrum fuerit plus 180 gradibus
reflexio illa erit ... fuerit argumentum plus
plus 180 erit ipsa reflexio ... erit
latitudo 2 equata que provenit ex reflexione
epicicli sua tamen et super eam scribe nomen sue
partis. Post hoc accipe deinde proportionis in
altero locorum servatis ... parte que erit
latitudo veneris 3 equata que provenit
ex declinatione deferentis ab ecliptica et est
semper septentrionalis. 3 latitudo ... 3 latitudines
ad invicem collige si omnes fuerint unius
partis si tamen fuerint in diversis partibus ut si
una erit in parte aliud et alia vel alie in
meridie vel ... tunc ...
quod est minus ... a ... aquilonalis
fuerit a minore vel ... sicut ... fuerit
maius et residuum fuerit latitudo veneris
... vel meridionalis. Sequitur

Latitudinem mercurii per tabulas
invenire. Equato centro vero et argumento
vero per aequationem ... argumento vero in
tabulam latitudinum et accipe quod
in eius directo fuerit in tabula declinationis
et in tabula reflexionis mercurii et
unumquodque seorsum scribe. Sed si centrum

quod fuit in principio motus capitis solaris
reflexione 10 partes minime. Sed si fuerit
nota incisionis circa 10 partes reflexionis
super partem reflexionis adde et quod fuerit
additionis vel diminutionis provenit
loco prime reflexionis sua prima deleta
deinde centro medio motus 240 gradus
et si ex additione provenit plus quam
360 remove deinde 360 et reliquum
residuo vel id quod fuerit minus 360
lineas in tabule ingredere summis
nota portio que est cum diversitate
veris declinationis prius servate
accipe partem proportionalem et proportionem minorum
portionem ad 60 proportionem et quod provenit
latitudo prima equata provenies ex
declinationis epicicli et ea sua deinde
cum nota latitudo prima fuit ab vel
minuendo ex quo patentibus quo in precedenti
stelle et novem pre partibus super eandem declinatio
centro medio motus 180 gradus adde si ex
additione provenerit plus quam 360
remove deinde 360 et id quod provenerit
intra cum tabulas ingredere et quod venit
dicto fuit deinde proportionem sic in duobus
locis scribe deinde cum reflexione prius
servata accipe partem proportionalem 2 proportionum
illorum minorum ad 60 quod est reflexio equata
sua cum quod si centrum vero in
variis cum pro addito cum quo nota
proportio prima primo proposito fuit diminuende
proportioni fac cum ea que data est in
precedenti prima latitudine et equata ex
provenit cum reflexione epicicli hoc est dicta
nisi quod oportet operari cum centro vero et
eo pro addito et ibi cum centro medio
simpliciter. Stelle et novem pre partibus
primo tunc deinde proportionibus in altero locorum
servatis cum partem et dimidiam sed
que prima parte cum pro dimidio est
latitudo dicta veneris servando equata
que semper est meridionalis deinde has
3 latitudines ad invicem collige ut
scias ad quam partem sit latitudo cognita
quo dicto est de venere. Capitulum.

Dies mediocres in dies differentes
sunt equantes quot dies
naturales sunt diversi quidem dimidii
sunt mediocres quidem
vero differentes sunt ex equati
incipiunt dies mediocres est revolucio
equinoctialis celi cum motu
solis medio ad unum diem addito
i. dies mediocris est tempus quo totus
equinoctialis in aliquo puncto dicta
signati revolvitur et insuper arcus
arcus quem in medio motu de orbe signorum
pertransit quod equale sunt in uno diei
pertransendit et hoc est in alphonsi 49
8 19 et ex parte plus deinde est ita
dies naturales mediocris ex 360 gradus et
49 minutis et 8 secundis consistunt per quas
patebit quod una hora equinoctialis
non potest ex 15 gradibus solis
ex 15 et duobus minutis unius gradus
sed compensatur probatur. Et secundum quod
omnes tabule mediorum motuum sunt
ordinate ad istos mediorum dierum
quia sunt equales inter se et non sunt
ordinate ad mensurandos dies differentes
tamen pono dies diversos seu equatis
differentes dicuntur revolucio equinoctialis
celi cum elevacione arcus vel signi cum
quod sol ad illum diem motu perficiat
diversos et isti sunt inequales inter se
aliquando ad unum minus est dicta ex
tamen ex multis diebus collecta sunt
sit maxima. Cum ergo quod scriptum est intenderes
das invenire tunc intra cum signo
in quo sol ea die vel hora qua est
facere ascensiones in ora ad tabula ascensionis
dierum cum noctibus primis et quas ille
signo in capite tabule eiusdem gradus recto
quas cum signo perfecit in linea numeri
quecumque quibus invenies accipe gradus et
nota que in directo illorum graduum et hic
signo solis inveniuntur et nota tamen
simpliciter intraveris si necesse fuit que
facto per quolibet gradum invento fac minute horam
et per quolibet minuto gradus invento fac secundum 2
hore quod et addas tunc illud tempus super
tempus mediocre et habebis intentum i.
habebis differentes dies quod non potest invenire
est revolucio equinoctialis et elevationis
sue ascensionis cui convenit diversos
motui sol et oportet quod dies 24 hoc tabula
certo puncto capiat anno dicte intelligendum
hoc quod dies differentes sunt nobis necessarii
per gradum ascendente investigando qui 24
dies differentes ubilibet docet investigare

De diversitatem aspectus lune in
longitudine et latitudine
investigandam invenire et per
locum lune visum tam in longitudine

quod in latitudine est positio sumitur. Est locus lune verus est punctum celi in quo linea a centro terre per centrum lune educta in celo ceciderit sic ergo est locus in celo [illegible] celi in quo linea a visu aspicientis per corpus lune producta in celo occurrit et patet locus lune verus secundum longitudinem in orbe signorum est quem secat duorum orbium quorum primus est ipse orbis signorum et alius magnus orbis sive circulus per verum locum in celo lune de celo transiens et per polos celi signorum. Et eodem modo apparens eius locus in orbe signorum est quem secat duorum circulorum quorum unus est orbis signorum et alius magnus orbis transiens per polos orbis et per visum locum lune in celo. Diversitas itaque aspectus lune in longitudine est arcus in circulo signorum sunt arcus circuli signorum comprehensus inter verum locum lune et circulum transeuntem per polos circuli signorum et visum locum lune in celo. Eodem modo intellige de stelle. Similiter est locus stelle in latitudine est quem secat duorum circulorum quorum unus per corpus stelle et polos zodiaci, similiter per corpus stelle transit et equinoctialem dividit zodiacum. Est igitur diversitas aspectus lune in latitudine ipsa in circulo signorum comprehensus circulus circuli transeuntis per polos circuli signorum et verum locum lune in celo ut inter circulo signorum et visum locum lune in celo inter circulum signorum et verum locum lune comprehensus. Et notandum quod diversitas aspectus lune in longitudine extracta ex tabulis quibus utimur est in his lunaribus coniunctionibus in eodem loco [illegible] circulus orbis signorum inter verum locum solis et visum locum lune comprehensus et hec diversitas aspectus potius dicatur diversitas aspectus lune ad solem quam proprie diversitas et ille tales sunt facte luna existente [illegible] [illegible] et [illegible] et similiter ipsa existente in ecliptica et [illegible] in principio cuiuslibet signi et ~~[illegible]~~ facte per horas equales secundum quod verus locus lune elongatur a circulo meridiano ante vel post per horas equales in 10 climate ad quod tabula est composita et ipse diversitas [illegible] [illegible]

solaribus inveniendis quia eas nec quam possemus invenire et non alibi utimur ergo. Cum igitur volueris operari scias locum lune verissimum ad horam coniunctionis et gradum ascendentem et gradum medii celi secundum dies equatos ad horam per coniunctionem utrum luna sit ex parte orientis vel occidentis respectu medii celi, i. circa si fuerit super terram i. supra orizontem quia aliter non facies. Videas si luna sit inter gradum ascendentem et gradum medii celi. Et parte tunc ipsa est orientalis, si non inter gradum medii celi et occidentis ipsa est occidentalis et est super terram quia eclipses non possunt accidere nisi fuerint super terram vel supra orizontem. Deinde facies quod luna sit in principio tabule diversitatis diversitatis eius [illegible] horas equales quando si luna fuerit ex parte occidentis tunc hore coniunctionis dierum equatis sunt distancia veri loci lune a circulo meridiano vel subtractione [illegible] loci lune a circulo medio gradum medii celi et [illegible] qui remanet facit horas equales [illegible] [illegible] et reddit [illegible] Tempus si luna fuerit ex parte orientis tunc horas diversitatis coniunctionis dictis [illegible] a 2 [illegible] et [illegible] distanciam quam quilibet vel [illegible] circulum medii celi a circulo [illegible] loci lune et [illegible] qui remanet fac horas equales et partes fractionis et [illegible] longitudinem lune [illegible] equales et partes fractiones vel [illegible] fractiones a linea meridiani [illegible] [illegible] horis longitudinis [illegible] in tabula diversitatis aspectus que sunt propter latitudinem regionis tue [illegible] in horis [illegible] in quo fuit luna et ex parte [illegible] tales si luna fuit ante meridiem vel ex parte inferiori tabule si luna fuit post meridiem et quod inveneris in directo earum latitudinis et earum longitudinis accipe et habebis diversitatem aspectus. Si autem hore non fuerint integre horarum et si [illegible] [illegible] tabulas [illegible] per additionem et accipe [illegible] longitudinis et latitudinis ut prius et [illegible] Deinde scias [illegible] inter illas duas equaciones [illegible] [illegible] a [illegible] equalibus [illegible] quo [illegible] et accipe [illegible] [illegible] [illegible]

ad 60 pro 2a et adde ipsam partem proportionalem
super minuta longitudinis primo accepta si fuerint
pauciora vel minue si fuerint plura et [illegible]
accepta [illegible] adde partem proportionalem differentie
minutorum longitudinis et fac ad minuta latitudinis
primo accepta ut continuo longitudinis dictum
est et habebis diversitatem aspectibus equatam
[illegible] et [illegible] et [illegible] signo in quo est
luna si fuerit in primo [illegible] signi. Si vero
non fuerit in primo [illegible] signi vel [illegible]
[illegible] cum horis longitudinis [illegible] in
signo sequenti et in [illegible] tabula [illegible]
[illegible] si habebis minuta [illegible]
factum est in signo precedenti et habebis
diversitatem aspectus equatam longitudine
et latitudine [illegible] et minuti in primo signi
sequentis in quo est luna [illegible] diversitatem
minutorum longitudinis et latitudinis [illegible]
et minuti signo in quo est luna et [illegible]
sequenti et accipe partem proportionalem differentie minutorum
longitudinis [illegible] gradus quos luna
perambulat in signo in quo est [illegible]
signum [illegible] ad 30 gradus [illegible]
[illegible] in [illegible] quem perambulat
luna de signo primo et [illegible] divide
per 30 gradus et habebis partem proportionalem [illegible] minuta
longitudinis equata [illegible] et minuti in signo
in quo est luna si fuerint pauciora minuti
longitudinis [illegible] signo sequenti vel [illegible]
si fuerint plura [illegible] accipe differentiam minutorum
longitudinis equatorum [illegible] signo et fac ad
minuta latitudinis equata [illegible] signo in quo est luna
[illegible] longitudinis [illegible] et habebis diversitatem
aspectus lune in longitudine et latitudine equatam
[illegible] et minuti et [illegible] loco lune in signo
in quo est supposito quod luna fuerit in auge
sui epicicli et [illegible] in auge sui deferentis. Si
vero luna non fuerit in auge epicicli intra cum
centro lune equato lune ad tabulam [illegible]
que augmentatur [illegible] gradus et si precise non
potes invenire intra cum duobus [illegible]
[illegible] est in [illegible] et accipe minuta que
invenies [illegible] in tabula [illegible]
[illegible] est [illegible] in quorum [illegible]
ad 60 [illegible] partem proportionalem minutorum longitudinis
equatorum ultimo et [illegible] minutorum latitudinis
et [illegible] et minuta longitudinis adde super
minuta longitudinis ultimo et [illegible] longitudinis
latitudinis super minuta latitudinis et provenient
minuta latitudinis et longitudinis equata [illegible]

[illegible] pro [illegible] et minuti [illegible]
[illegible] loco lune in signo in quo est 3o [illegible]
loco eius in epiciclo. Deinde scias longitudinem
que est inter solem et lunam [illegible]
medios motus in illa hora [illegible]
medium motum solis a medio motu lune
qua longitudine [illegible] et habebis centrum medium
lune cum quo intra cum tabula [illegible]
ut prius equando si oportuerit et accipe minuta
que in eius directo invenies in tabula que
intitulatur [illegible] [illegible] minutorum
[illegible] ad 60 [illegible] minuti longitudinis
[illegible] equatis partem proportionalem longitudinis
minutorum adde super minuta longitudinis [illegible]
minutorum latitudinis adde [illegible] minuta latitudinis
et [illegible] habebis minuta longitudinis et latitudinis
equata [illegible] eius [illegible]
Deinde diversitatem aspectus lune in longitudine
adde super locum lune [illegible] et [illegible] si fuerit
longitudo lune [illegible] 90 gradus [illegible]
[illegible] si non fuerit plus minus et
[illegible] per augmentum vel diminutionem
[illegible] locus lune [illegible] locus
lune [illegible] invenitur per tabulas
[illegible] diversitatem aspectus a solis
[illegible] a diversitate aspectus lune [illegible]
scias latitudinem lune [illegible] et [illegible]
[illegible] et si fuerit latitudo lune et [illegible]
aspectus in latitudine in parte una [illegible]
si non fuerit in diversis partibus [illegible]
[illegible] et scias [illegible] quod [illegible] quia
[illegible] latitudo lune [illegible] quod [illegible]
[illegible] et [illegible] locum lune [illegible]
[illegible] in longitudine [illegible] in latitudine et [illegible]
[illegible] Capitulum [illegible]

Ad [illegible] lune [illegible] cum sole [illegible]
[illegible] comprehendere et quantitatem digitorum
solarium [illegible] eclipsium [illegible] durationem
per tabulas [illegible]. Scias tempus ve-
rissime [illegible] diebus [illegible]
per [illegible] equatione media ad [illegible]
[illegible] mediam eclipsis solaris [illegible]
[illegible] invenisti [illegible] scias [illegible] locum
lunarum ad [illegible] [illegible] scias [illegible]
[illegible] scias centrum lune equatum ad
[illegible] [illegible] et [illegible] centrum
solis [illegible] Postea scias [illegible] latitudinis
[illegible] et [illegible] quo [illegible]
centro solis et [illegible] centro lune equato ad [illegible]
[illegible] [illegible] lune in
una hora [illegible] in [illegible] [illegible]

scias quod ascensionis et quod medii celi ut
scias horas elongacionis a medie
secundum modum dictum in premissis Scias
similiter utrum tempus coniunccionis fuit de die
aut de nocte secundum quod dictum est ubi cum omnibus
cum diligencia postea cum horis et minutis
coniunccionis a medie si fuit de die
scias distanciam aspectus lune in longitudine tua
equata per horis et minutis et loco lune in
signo et in epiciclo et in differencia secundum quod
dictum est in premissis quod divide per superacionem
motus lune in una hora si potest et quod
provenit erunt hore si non fuit aliquid
residuum quod non potest dividi vel si primo
dividere non potuisti minuta et tercia in secundis
et divide quod provenit per superacionem lune
in una hora et provenient minuta hore
et post horis per dictum horas et minuta
minuta solum quas horas tu postea fiat
coniunccionis addas super horas vere coniunccionis
et super veras significaciones diebus equatis
prius situatis et si inter quod lune et quod gradus
ascendentis fuerint plures quod duobus signis
quod 90 vel subtrahe si fuerint pauciores scias
scias inparaciam horarum horarum facta addicione
vel subtraccione aliqua alia
media et scias iterum distanciam aspectus in
longitudine tua sit prius penitus operandum
et quod provenit erit distancia aspectus 2
quod fuit prius et ergo divide per superacionem
lune in una hora et quod tibi provenerit
addas super horas vel coniunccionis diebus
equatis prius addicionem vel detractio
prius situatis Et ideo si inter gradum lune
et gradum ascendentis fuerint quod plures quam 90
vel ab eis minus et fuerint pauciores et horarum
horarum que est inter per addicionem vel subtractionem
provenit scias longitudine ut prius
aliqua media et scias iterum distanciam
aspectus lune in longitudine tua 3o ergo
sicut prius operando Si non quod distancia 3
fuit sicut sit hora et minuta que provenerant
per addicionem horarum et minorum et distanciam
super horas vel coniunccionis si addidisti vel
per subtraccionem si subtraxisti sit hora vel
coniunccionis quod scire et medium eclipsis quod
tunc distancia quod est aspectus lune in loco
erit equalis inter quod inter solem et lunam
inter verum locum solis et verum locum lune
in ipsa hora fuerit per augmentacionem vel
sine diminucionem si distancias aspectus
3 fuit ante 2 tunc distancias aspectus in ea
hora erit vero equalitate minorum que fuit
inter solem et lunam tu tempus distancias 3
fuit vero 2 quia ergo que horam in qua
distancias aspectus lune in longitudine est equalis
quod que in medio hora est inter solem et lunam
aut inter verum locum ut inter eas ipsa est
ergo coniunccio lune ut quod sit habere potest
qua si distancias 3 vero 2 fuit Scias quod
eclipsim et suam tunc super horas diversitate
quod ante media die quas per tres distanciam
inveniatis secunda per unam huius hore per addere
et cum quod provenit scias distanciam aspectus
in longitudine tua per premissa per quod minuta que
quod distancias per 3a superat et ergo eclipsis
per 6 minuta et illud quod provenit per hore
super superacione lune erit quod ipsum motus
equatus per que in quo divides 3 superat
secundam quod per prius situasti divide et quod provenit
erit per horas que hore sed diversitatis
addas et horis horas sed distancias
tuas quas sua Si non divides 3 vero fuit
in scias et ipsam si distanciam sed ad 3 ergo
quam minutas per 6 et quod provenit superacioni
lune addas et per superacionem lune
divide et provenit motus equatus per quod
in quo tu divides ante prius per te et quod
provenit erit post horas que collectionis 2e distanciae
subtrahe et in ipsum erunt hore distancias
2e equate sua causa eius hore 2e distancias
equatas et inter eas medias et suam
motus lune distanciam et solis si inveneris
in ipsa et non distanciam motus solis in una hora
et distanciam motus lune sed in una hora
minuta in horarum per partes per proporcionem et quod
provenit sua et si eas horas fuit minuta
horarum per proporcionem et distanciam motus in ipsa
lunari per in una hora secundum proporcionem horarum
addas per tres huius addere super motus prius
situatis et si loco lune ab ascendente in
illa hora minus 90 quod perdictas distanciarum
2e equatas ex horis post inter quod super augmento
vel diminucione prius situatis lune et
motum solis distanciam in eisdem horis
a motu solis et motus lune distancias
motus tu motus solis in eisdem horis 9 situati
a loco lune ad horas 9 post vero sed erit lacitudo et
ab ascendente lune vero 2 et sed ab alio latitudinis et

cum ab arcu latitudinis subtrahe viz locum capitis draconis in hora 2a dimidij equate quod si longitudo lune ab capite draconis plus 90 fuit adde [illegible] que tibi proveniet [illegible] lune eclipsis [illegible] medio [illegible] dimidie provenit erunt hore in [illegible] solis et lune quod est medium eclipsis [illegible] solis et lune [illegible] latitudinis [illegible] latitudinis 2a [illegible] et [illegible] lune ad medium eclipsis [illegible] equata [illegible] quod si addita singulis [illegible] subtracta [illegible] hore dimidie [illegible] medie eclipsis [illegible] tabulis hore medie eclipsis [illegible]

[illegible]

latitudo lune [illegible] magna [illegible] polos [illegible] locum [illegible] locum solis et locum lune [illegible] dimidij [illegible] apparens [illegible] latitudinem et longitudinem [illegible] et [illegible] apparens [illegible] angulos [illegible] lune [illegible] astrolabium [illegible] eclipsis solis [illegible] lune [illegible] latitudo lune [illegible]

[illegible]

[illegible] capud. Si vero contin-
gerit quod [illegible] passet sub tractione [illegible]
illud quod [illegible] sub tractione [illegible]
[illegible] et residuum [illegible]
ad 360 [illegible] sub tractione et
quantum [illegible]
latitudinis 30 equatio [illegible] eclip-
[illegible]

que in uenacionis in directo sunt prius
que fiebant sub aliis prius scripta
quibus sub [illegible] puncto sub puncto
et [illegible] eclipsis. Deinde [illegible]
[illegible] ad [illegible]
[illegible] et quantitatem [illegible] per motum
[illegible] punctorum [illegible]
[illegible] que [illegible]
[illegible] linee [illegible] ad [illegible]
[illegible] intra [illegible]
que [illegible] patet
in [illegible]
que in [illegible] in directo. Et [illegible]
[illegible] ad [illegible]
linee ascensio ad horam [illegible]
[illegible] adde [illegible]
[illegible]
[illegible]
[illegible] que in [illegible]
in directo [illegible] que [illegible]
[illegible] tabula [illegible] et [illegible]
[illegible] concordant [illegible]
[illegible]. Et [illegible]
[illegible]
[illegible]. Deinde [illegible] apparentis
[illegible] punctorum [illegible]
et [illegible]
[illegible] que de tabula
[illegible] apparentis que [illegible] actionem
[illegible] et [illegible] que [illegible]
[illegible] ad [illegible]. Quod [illegible]
apparentis addere [illegible] quod
[illegible] ad [illegible]
[illegible] apparentis
[illegible] ad [illegible] et
[illegible] apparentis [illegible]
ad [illegible] punctum
eclipsis et [illegible] linee ad [illegible]
[illegible] linee in [illegible]
[illegible]. Et [illegible] latitudinis
linee 4o [illegible] in [illegible]
in [illegible] tabula eclipsis [illegible]
[illegible]. Deinde [illegible]
[illegible] ad [illegible] et
[illegible]
[illegible] linee [illegible] in [illegible]

acceptus per arcum linee ascensio in hora
medie coniunctionis eclipsis et in [illegible]
cum hora. Et si aliquid fuit
residuum minutorum [illegible]
[illegible] ascensio in una hora et
[illegible] et peruenit [illegible] que hora
[illegible] hora que fuit ante eclipsis
ipsius ad [illegible] et [illegible] ipsius
finem. Et si hore [illegible]
subtrahe ab hora medii eclipsis
et remanebit hora principii eclipsis
secundum apparentiam ipsius [illegible]. Et plus
[illegible] 12 [illegible] latitudinis
3o [illegible] ad [illegible] eclipsis et [illegible]
de linee [illegible] latitudinis
et latitudo linee ad initium eclipsis
[illegible] hora [illegible] facta
[illegible] ad [illegible] medie
eclipsis [illegible] eclipsis
[illegible] ad [illegible]
12 [illegible] latitudinis linee [illegible]
[illegible] linee 3a ascensio et [illegible]
latitudo linee et [illegible] latitudinis ad
finem eclipsis. Et hec [illegible]
[illegible]. Et si
hora [illegible] et finis eclipsis
[illegible]
[illegible] principii eclipsis [illegible]
[illegible] et [illegible]
[illegible]
in [illegible] ascensio [illegible]
[illegible] actionem [illegible]
[illegible]
[illegible]
et ad [illegible] medii eclipsis
et [illegible]
linee in [illegible] hora [illegible]
[illegible] hora [illegible]
[illegible]. Deinde [illegible] que
[illegible] et [illegible]
[illegible]
[illegible] que [illegible]

sumpsi adde et altitudinem eclipsis post
augmentum proveniet summa quam vocabis
Deinde accipe horas minuta incidentie
post augmentum accipe [illegible]
quod est horas medie eclipsis minus
si longitudo quam sumpsisti [illegible]
plus 90 quam fuerit tunc adde [illegible]
si fuerit minus 90 [illegible]
Similiter post augmentum accipe quod
addes super horas medie eclipsis
si minus quam 90 [illegible] et habebis quando
plus 90 quam fuerit tunc [illegible]
minus si fuerit [illegible] et habebis
quando minus 90 quam [illegible] post aug
mentum [illegible] proveniet
hora principii et finis eclipsis [illegible]

[illegible]

intervalla longitudinis longitudinis et punctum
medii [illegible] in directo [illegible] sic
Deinde intra cum [illegible]
[illegible] et puncta et medii
[illegible] in directo [illegible] plus sive
[illegible] Deinde
[illegible] a a c [illegible]
[illegible] ut [illegible]
[illegible] est [illegible]
[illegible] Deinde
[illegible] que est [illegible] latitudinis
lune [illegible] quam [illegible]
[illegible] et [illegible]
[illegible] longitudinis et [illegible]
est [illegible] Deinde [illegible]
que est [illegible] latitudinis [illegible]
[illegible]
[illegible] que est [illegible]
[illegible] quod [illegible]
[illegible] et [illegible]
[illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible]
[illegible] et [illegible]
[illegible] que [illegible]
[illegible] latitudinis lune
[illegible] eclipsis [illegible]
[illegible]
[illegible]
[illegible] in directo latitudinis lune
[illegible] in directo
[illegible] latitudinis est [illegible]
[illegible]
[illegible] in directo [illegible] latitudinis
lune et [illegible]
[illegible] in directo [illegible]
[illegible] et plus [illegible]
[illegible] latitudinis
lune [illegible]
et [illegible] eclipsis

et [illegible] plus [illegible]
[illegible] ut plus dictum est
Si vero volueris [illegible]
[illegible]
[illegible]
[illegible] et [illegible]
[illegible] eclipsis
[illegible] et illud [illegible]
[illegible] et [illegible]
[illegible]
[illegible] 30 [illegible]
et [illegible] ad 6 [illegible]
[illegible] 30 [illegible] 80
et [illegible] 60 [illegible]
[illegible]
[illegible] ut [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 40 [illegible] et [illegible]
[illegible] 11 [illegible]
[illegible] et [illegible]
[illegible]
[illegible]
[illegible]
[illegible] lune [illegible]
[illegible]
[illegible] lune in medio eclipsis
[illegible] et illud [illegible]
[illegible]
[illegible]
[illegible]
[illegible] dictum est
[illegible] lune
[illegible] in 2 [illegible]
[illegible] 3 [illegible]
[illegible] 36 [illegible]
[illegible] dictum est [illegible]
[illegible]
[illegible] dictum est [illegible]
[illegible] eclipsis [illegible]
[illegible]

solis ad oppositum lune et terram
illius collocati corpore inter ...
quia si fuerit ... vel ... latitudinis
lune semper per ... non
solis neque eclipsabitur. Sed quod fuit
[illegible] in [illegible] et in
[illegible] in 12 [illegible]
dictum dicit per oppositum solis
[illegible] et [illegible] partem
eclipsis. Sed quod aliquando [illegible]
[illegible] quod dicit [illegible]
[illegible] quod [illegible] dicit [illegible] patet
[illegible]
dicit [illegible] quod [illegible] et in
[illegible]. Et in
[illegible] quod oppositum solis [illegible] accepta
[illegible] vel quando [illegible]
magna [illegible] in celo [illegible]
[illegible]
[illegible]
[illegible]
in [illegible] oppositum
[illegible] intelligitur oppositum lune
et [illegible] diametri dicit
in [illegible]
[illegible] solis. Ad [illegible]
in [illegible] et [illegible]
[illegible] astrolabium. Et in [illegible]
[illegible] planetis
[illegible] et [illegible] diametris
loquitur [illegible]
[illegible] diametri [illegible] et [illegible]
[illegible] et intelligere. Sed [illegible]
[illegible] eclipsis solis [illegible]
[illegible]

Quoniam eclipsis lune quantitatis
et durationis in [illegible]
[illegible] apparet
[illegible]
[illegible] eclipsis [illegible]
in [illegible]
[illegible] lune et
[illegible] solis [illegible]

quibus in [illegible]
[illegible] solis et lune [illegible]
est in [illegible] que [illegible]
[illegible] latitudinis lune
ad [illegible] apparentem et hoc est
[illegible] latitudinis [illegible]
[illegible]
[illegible] apparet [illegible]
hoc modo [illegible]
et [illegible] ad [illegible]
[illegible] lune [illegible]
[illegible]
[illegible] lune
[illegible] eclipsis [illegible]
[illegible]
eclipsis [illegible]
[illegible] apparere
[illegible] lune
[illegible] in 12 [illegible]
dictum est [illegible]
eclipsis [illegible]
[illegible]
[illegible]
[illegible] eclipsis
[illegible]
[illegible] eclipsis [illegible]
[illegible] lune [illegible]
[illegible] in [illegible]
[illegible] eclipsis [illegible]
[illegible] eclipsis
[illegible] eclipsis [illegible]
in quo [illegible] lune
incipit [illegible] in
[illegible]
[illegible] in quo luna
[illegible] est [illegible]
[illegible] eclipsis [illegible]
[illegible] lune [illegible] est [illegible]
[illegible]
quo [illegible] luna incipit [illegible]
[illegible]
eclipsis est quo luna [illegible]
[illegible] et [illegible]
[illegible] eclipsis [illegible] qui
[illegible] luna [illegible] eclipsis
[illegible] ad [illegible]

[illegible] punctus et accipe puncta [illegible]
[illegible] [illegible] [illegible] produc[illegible]
est. Si vis scire in eclipsibus [illegible]
[illegible] eclipsis solis [illegible] superficie lune
et fiunt puncta eclipsis minus 12
[illegible] omnibus [illegible] quantitas eclip-
sis et in diametro corporis [illegible]
[illegible] 2a que est quantitas eclipsis
lune et eius in diametro [illegible]
[illegible] eclipsis [illegible]
[illegible] 12 punctorum [illegible]
[illegible]. Hic [illegible]
[illegible] apparet [illegible]
est [illegible] eclipsis
[illegible]
[illegible] eclipsis [illegible] parte
[illegible]
[illegible] et lune [illegible]
[illegible] eclipsis solis [illegible]
[illegible]
[illegible] per aliquod tempus [illegible] erit
[illegible] eclipsis. Et [illegible]
eclipsis [illegible]
[illegible]
erit per aliquod tempus [illegible]
[illegible]
[illegible] latitudinis
[illegible] eclipsis solis [illegible]
[illegible] eclipsis lune [illegible]
[illegible] latitudinis lune [illegible]
[illegible] latitudinis [illegible]
[illegible]
[illegible]
[illegible] latitudinis lune [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] eclipsis [illegible]
et lune [illegible]
[illegible] eclipsis [illegible]
[illegible] eclipsis [illegible]
[illegible]
[illegible] eclipsis et [illegible]
[illegible]

[illegible] punctus [illegible] et [illegible]
Et [illegible] et [illegible]
[illegible] latitudinis [illegible]
[illegible] 12 [illegible]
[illegible]. Si [illegible]
et [illegible] latitudinis [illegible]
[illegible]
[illegible]
[illegible]
[illegible] latitudinis
[illegible] 12 [illegible]
[illegible]
[illegible] eclipsis lune [illegible]
[illegible] et [illegible] latitudinis lune
62 [illegible]
[illegible] 38 44 [illegible]
[illegible] latitudinis
[illegible] 322 [illegible]
[illegible]
[illegible] lune [illegible]
[illegible] et [illegible]
[illegible] 10 [illegible]
[illegible]. Et [illegible]
[illegible] latitudinis 30 [illegible] et latitudinis
[illegible]
[illegible]
[illegible] eclipsis [illegible]
[illegible] eclipsis [illegible]
[illegible]
[illegible]
[illegible] eclipsis lune [illegible]
[illegible]
[illegible] eclipsis
[illegible]
[illegible] latitudinis
[illegible] 20 [illegible] latitudinis
[illegible]
[illegible]
[illegible] eclipsis [illegible]
[illegible] latitudinis [illegible]
[illegible]
[illegible]
[illegible] 12 [illegible]
[illegible] lune [illegible]

[illegible]

Ta[bu]la revolucionis annorum in suis fractionibus

n[umer]us annorum collectorum et expansorum

	s	g	m	2	3	4	5	6
1	0	5	49	17	18	50	12	
2	0	11	38	31	57	50	24	
3	0	17	27	51	56	30	36	
4	0	23	17	3	55	20	58	
5	1	5	6	19	54	11	0	
6	1	10	55	35	53	1	12	
7	1	16	44	51	51	51	24	
8	1	22	34	7	50	41	36	
9	1	4	23	23	59	31	48	
10	2	10	12	39	58	22	0	
11								
12								
13								
14								
15								
16								
17								
18								
19								
20	4	20	25	19	4	55	0	
40	9	16	50	38	9	28	0	
60	13	13	17	57	14	12	0	
80	19	9	41	16	18	56	0	
100	24	6	6	25	23	50	0	
200	48	12	13	10	57	20	0	
300								
400								
500								
600								
700								
800								
900								

Revolutiones duorum medi[illegible] vel unius alicuius [illegible] in [illegible] et [illegible]

[illegible]

[illegible]

polis in quamlibet parte zodiaci rec-
tius est quod motus fuit tunc con-
ditum [illegible] dicto alio modo
ascendentibus in [illegible] [illegible]
[illegible] ut est

Respondetur dicendum quod [illegible]
[illegible] apud [illegible]
[illegible] Secundo quod [illegible]
[illegible] nichil aliud
est quod [illegible] apud
[illegible] quod est in [illegible]
[illegible] ad corpus [illegible]
[illegible] ad [illegible]
[illegible] apud [illegible]
[illegible] [illegible]
[illegible] Dicitur [illegible] prius [illegible]
[illegible] [illegible] que
est [illegible] aliquo [illegible]
[illegible] quod [illegible]
[illegible] que sunt [illegible]
[illegible] ad [illegible]
[illegible] que [illegible]
[illegible] [illegible]
[illegible] que [illegible] ut [illegible]
[illegible] apud [illegible]
[illegible] [illegible]
[illegible] que sit [illegible]
[illegible] [illegible]
[illegible] apud [illegible]
quod [illegible] que [illegible]
[illegible] apud [illegible]
[illegible] que
[illegible] [illegible]
a 360 [illegible]
[illegible] et [illegible]
in aliis [illegible]
[illegible] zodiaci [illegible]
[illegible] vel [illegible]
[illegible] zodiaci que [illegible]
[illegible] Et per [illegible]
[illegible] sphera [illegible]

Et sic [illegible] finitur [illegible] [illegible]

Nostrum dom[inum] [illegible] Item [illegible] cum corp[or]e [illegible] ut [illegible] [illegible] mag[is] [illegible] corp[or]e [illegible] tempore [illegible] [illegible] [illegible] aliam [illegible] aut imperii [illegible] Item [illegible] toto tempore [illegible] corp[or]e apud aliam [illegible] [illegible] [illegible] tempus [illegible] aliquis [illegible] practicavit et cum passus [illegible] anni domini 1422 [illegible] Christi [illegible] [illegible] [illegible] Christi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible] solis et [illegible] anno lunari [illegible] [illegible] ut [illegible] [illegible] [illegible] corporis et [illegible] et [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible] [illegible] [illegible] [illegible] [illegible] 364 ducatus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alexandri [illegible] [illegible] 36 ducatus [illegible] [illegible] [illegible] [illegible] potuit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] corporis [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] 31 ducatus [illegible] [illegible] 28 [illegible] [illegible] 29 [illegible]

[illegible] imperii [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 [illegible] [illegible] 29 [illegible] [illegible] Carolus [illegible] [illegible] [illegible] [illegible] [illegible] septembri [illegible] [illegible] [illegible] 30 ducatus [illegible] [illegible] [illegible] 34 ducatus [illegible] 36 ducatus [illegible] [illegible] corporis [illegible] [illegible] et Philippus [illegible] [illegible] [illegible] 364 ducatus [illegible] [illegible] 30 ducatus [illegible] [illegible] [illegible] 34 ducatus [illegible] [illegible] [illegible] 34 [illegible] 04 [illegible] 12 [illegible] 34 [illegible] et 11 [illegible] 11 [illegible] [illegible] et 48 [illegible] [illegible] [illegible] [illegible] 30 [illegible] 29 [illegible] 30 [illegible] 29 [illegible] 30 [illegible] 29 et [illegible] [illegible] 30 [illegible] 29 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

aut primo post bissextum sed era christi et alphoncii. Quidam incipiunt in 2o post bissextum sed era Allexandri et dyocleciani super quem sit maledictio. Quidam incipiunt in 3o post bissextum sed era Cesaris seu Julii. Ista dicta valent pro argumento tabularum annorum collectorum et expansorum incarnationis christi. Alphoncii et dyocleciani [illegible] tabularum [illegible] annis [illegible]. Ista ad tabulas annorum collectorum et expansorum ad eram diluuii Nabuchodonosor et Allexandri philippi [illegible] et persarum et ad eram arabum et eciam ad tabulas mensium arabum tabularum est quia tabula sed tabula mensium [illegible] ut in tabulis alphoncii etc. etc. etc.

[illegible] dividendo [illegible] regule [illegible] prima est [illegible] anni fuerint solares bissextiles multiplicentur per 365 et provenient dies in [illegible] annis [illegible] et [illegible] dies bissextiles interim superadditos [illegible] era incipit in primo post bissextum ut era christi et Alphoncii, divide annos [illegible] per quatuor et [illegible] dies bissextiles interim superadditis adde [illegible] cum precedentibus diebus et [illegible] annos dies in [illegible] annis [illegible]. [illegible] era incipit in 2o post bissextum ut era Allexandri et dyocleciani [illegible] ad [illegible] annorum adde unitatem et divide per [illegible] etc. ut prius. [illegible] era incipit in 3o post bissextum sicud era Cesaris uel Julii [illegible] adde ad [illegible] annorum [illegible] et divide per [illegible] ut prius [illegible] menses completos uel annos [illegible] dies [illegible] menses completi [illegible] aliquos dies [illegible] menses [illegible] completi [illegible] adde cum diebus precedentibus annorum. [illegible] dies illorum annorum et isti dies [illegible] divide igitur ista [illegible] per 60 et [illegible] erit [illegible] 2o et si aliquid remanet in loco [illegible] quod dividi non [illegible] illud pone ad locum [illegible] divide 2a per 60 et in [illegible] erunt 3 [illegible] quod remanet pone in loco 2orum si [illegible] pone [illegible]

in loco [illegible] divide 3 per 60 et in [illegible] erunt 4 et si aliquid remanet pone in loco 3orum aut [illegible] et ultimo pone 4 ad locum 4orum que divide per 60 [illegible] quod non procedimus quia forte mundus non stabit tamdiu quod possent [illegible] per 60 [illegible] futura [illegible] in quibus [illegible] dies [illegible] completi tot 4 quod dividi possent per 60 [illegible] procedimus ad [illegible]. Secunda regula.

[margin: 2a]

Si autem anni solares non bissextiles ut anni diluuii Nabuchodonosor et philippi parvi Allexandri [illegible] persarum tunc annos annorum completorum multiplicabit in 365 et provenient dies in [illegible] annis contenti de [illegible] completis et diebus mensis completi [illegible] ut prius [illegible] dies divide per 60 ut prius et [illegible] ut prius.

[margin: 3a]

Tercia regula [illegible] fuerint anni lunares ut [illegible] anni arabum multiplica eos per 354 et [illegible] dies annorum [illegible] sive diebus qui [illegible] 11 [illegible] quod est [illegible] et [illegible] hoc multiplica igitur [illegible] annorum in 11 [illegible] et productum divide per 30 et [illegible] dies [illegible] 11 [illegible] qui [illegible] anno lunari uel dies completos adde [illegible] cum diebus precedentibus. [illegible] est [illegible] si dividendo [illegible] per 30 in residuo [illegible] 14 [illegible] plus [illegible] 14 addatur una dies cum aliis diebus. Si vero remanent [illegible] 14 uel pauciores [illegible] est [illegible] nisi quis vellet componere tabulam [illegible] facto [illegible] dies [illegible] et [illegible] dies mensium [illegible] et [illegible] dies mensium [illegible] cum diebus annorum et totum illud aggregatum divide per 60 ut prius. [illegible] dicta valent pro primo Canone tabularum regis Alphoncii in quo dicitur. Nunc annorum mensium et dierum [illegible] a principio alicuius ere nobis [illegible] ad [illegible] et [illegible] sive tabulis [illegible] etc. etc.

Notandum cum Canone qui incipit Nunc annorum mensium et dierum [illegible] ad [illegible] per tabulas ad [illegible] reducere. Tabule [illegible] quibus anni mensis [illegible] ad [illegible] una ad menses 2a ad annos [illegible] 3a vero ad annos [illegible]. Tabula [illegible] mensium [illegible] quia [illegible] in [illegible] et [illegible] que [illegible] diebus [illegible] et precedentibus [illegible] mensibus [illegible]. [illegible] 354 [illegible] bissextiles [illegible] per mensibus tabulas

una que deservit tribus annis quibus secunda
in proximo anno bissextili. Sed in certis non bis-
sextilibus et lunaribus una sufficiat in ista
tabula. Tabule vero annorum expansorum
in annis solaribus incipientibus debent pro-
cedi ab uno anno usque ad 20 et in di-
recto cuiuslibet anni sunt positi 3 2 1 que conveniunt
in ipso et in omnibus prescriptis que intermedia
sunt 2 in singulas auctoritas in incipientibus vero
annis lunaribus procedit usque ad 30 dum
anni expansi ut patet in canone qui composi-
tus est in singulos annos ab unitate usque ad
20 annos vel 30 per processu continua tabule
procedit. Tabule autem annorum collectorum in
certis solaribus incipiunt a 40 et augentur
per 20 usque ad centum 100 et deinde postquam
fuit ad 100 augetur per 100 usque ad 1000
et a 1000 augeri incipiunt usque ad
8000 que per mille [illegible] possi-
bile processus in eis 2 ut cuivis placuerit et
ponuntur 4 3 2 et 1 que in dictis annis
conveniunt in directo cuiuslibet annorum ut patet in
talibus tabulis. Cursus autem collecti
in annis lunaribus incipiunt a 30 et au-
gentur per [illegible] usque ad 900 annos
et deinde postquam fuit ad 900 [illegible]
[illegible] per 900 annos [illegible] per additionem
[illegible] 900 annos usque ad 8100 annos et
900 annorum usque ad 8100 quibuslibet
4 3 2 et 1 que conveniunt in quibuslibet
annis ponuntur in directo illorum annorum
in quibus conveniunt et per hunc modum habetur
modus quo omnes tabule [illegible] sunt
composite et possunt corrigi per hec dicta et [illegible]
[illegible] corrupte etc.

Item notandum circa illum canonem
qui incipit conjunctis 4 3 2 et 1
incipientibus a principio anni erc
incipientibus per illud 4 3 2 et 1 incipientibus
a principio anni erc [illegible]
[illegible] erc unus erc ad aliud sunt
4 3 2 et 1 que sunt in principio anni
erc et [illegible] principium annus et dicte pro
erc et [illegible] in prima tabula cuius titulus est
[illegible] tabula [illegible] unius regni ad aliud [illegible]
nomina [illegible] omnium etc.

Est notandum circa dictam aliam partem
que primo loco ponitur in intitulando
[illegible] tabula [illegible]
[illegible] titulus [illegible] et circa di-
[illegible] autem titulus [illegible]
[illegible] omnes alias [illegible]
tabula [illegible] que [illegible] continet capitula
[illegible] corrigere [illegible]

signas 9 dietas que primo tabule constituit
[illegible] et sic hic volumus decima
[illegible] est prima dierum [illegible] capitulo [illegible]
[illegible] secunde littere a parte [illegible] primi capituli
et illud quod remanet est decima diei
seu prima littera [illegible] tabuli et [illegible]
primi tabuli a primo [illegible] tabuli primi [illegible]
[illegible] seu 2 2 tabuli et [illegible]
[illegible] a prima [illegible] 2 tabuli
et [illegible] usque ad 3 tabulis [illegible]
a 1 [illegible] dietas et sic hic volumus 18 [illegible]
prima 3 tabuli [illegible] prima et [illegible]
est prima et 2 2 tabuli et [illegible]
[illegible] et [illegible] 18 [illegible] a
12 [illegible] 2 tabuli [illegible] 10 et
et remanet 19 et [illegible] aarz
[illegible] corrigit [illegible] et vero [illegible] Si
vero volumus corrigere signas 9 dietas [illegible]
est [illegible] tabuli [illegible] quod
4 3 2 et 1 correspondent 20 annis Alphonsii
[illegible] 20 annos ad 3 2 et 1
per tabulas [illegible] et Alphonsii et invenitur
in fine tabule annorum expansorum [illegible]
Alphonsii et [illegible] in directo 20
annorum 2 1 4 4 et [illegible] a 4 3 2
et 1 [illegible] 20 annorum [illegible]
tabule [illegible] et hic [illegible] in tabula [illegible]
intitulatur tabula [illegible] unius [illegible]
erc per annos Alphonsii que quidem tabula
magna [illegible] tabulas
et illud quod remanet est prima dietarum [illegible]
tabuli et [illegible] 3 2 et 1 [illegible] 20 annis
annis Alphonsii correspondentia [illegible]
a 4 3 2 et 1 2 [illegible] tabule
[illegible] directo 20 annorum [illegible] 2 dietarum
[illegible] 3 2 1 20 annis Alphonsii
[illegible] a 4 3 2 et 1 [illegible]
[illegible] directo annorum in tabula prima [illegible]
[illegible] 3 [illegible] et [illegible]
[illegible] a 3 2 et 1 20 annis Alphonsii
correspondentibus [illegible] 4 3 2
et 1 40 annis vel 60 vel 80 etc. Alphonsii
correspondentibus [illegible] tabula augmentetur per
20 gradus et [illegible] tabuli [illegible]
[illegible] corrigi per 4 3 2 et 1 correspondentia 60
80 aut 40 [illegible] annis Alphonsii [illegible]
per 3 2 et 1 correspondentia 20 annis Alphonsii
[illegible]. Sed si forte [illegible] tabule [illegible]

Correcta.

computus magne tabule per quas debent corrigi priores dicte que sunt incorrecte et possitur per eas non potest corrigi ille que dicte erant primi capituli. Ad hoc respondetur quod non est verum possibile quod omnes iste tabule sint incorrecte et maxime omnes linee omnium illarum tabularum et ideo si una minime in aliquibus illarum tabularum esset correcta adhuc tales dicte que invenientur [illegible] non [illegible] dictum etc.

Item notandum circa canonem qui incipit cognitis 1320 et [illegible] annorum mensium et dierum in eis contentorum invenire. Si vel numerus illorum annorum inventorum in eris bissextilibus esset 39 primus bissextilis tunc [illegible] et primus que in tabula annorum expansorum invenire non potest est intrandum ad tabulam mensium que pertinet ad annum bissextilem. Sed si fuerit alius annus puta primus vel [illegible] vel [illegible] incipit bissextilis tunc non [illegible] sed debet intrari tabula mensium annorum communium non bissextilium. Sic autem [illegible] sic non. Si enim non intrasti tabulam annorum expansorum [illegible] 1321 sed solum annorum collectorum tunc ultimus annorum non erit 39 primus bissextilis immo [illegible] bissextilis. Si autem intrasti tabulam annorum expansorum tunc notandum sit littera B pro qua denotatur bissextilis sequitur annum [illegible] illud que ultimo per [illegible] illorum 1320 et [illegible] ad annos invenisti quod si ita fuit tunc ultimus que invenisti erit 39 post bissextilem. Si vero aliter fuit tunc ultimus que invenisti non erit 39 primus bissextilis [illegible] quod [illegible] littera B in tabula annorum expansorum bissextilium sit bene locata. Item notandum quod predictum canonem et per precedentem qui sic incipit cum annorum mensium et dierum propositorum ad 1320 et [illegible] per tabulas etc. potest invenire quot anni Romani et Egyptios sive lunares faciunt dum per precedentem sciveris quot 1320 et [illegible] continent in 1000 200 aut 1500 annos Romanos reducere etc. ad annos lunares per istum canonem etc. patet.

Et notandum per inventione per annos menses et dies ere Alphonsi que [illegible] 1320 et [illegible] per maximum alicuius ere in [illegible] per tabulam ad hoc factam vel factas unde Alphonsus [illegible] suis [illegible] composuit unam magnam tabulam que in se continet tabulas particulares in omni quasi per annos menses et dies eius. Alphonsi notas non inveniunt 1320 et [illegible] [illegible] alterius ere [illegible] fuit facilius. Est autem titulus illius tabule talis: Tabula ex tractionis unius ere ex alia ex eris que posite sunt in [illegible] tabula sic melius potest intitulari: Tabula extractionis unius ere ex eris que posite sunt ex ere Alphonsi sicut est in dicto quod [illegible] tabula est talis per quam extrahitur unaquaque era ubi posita ex era Alphonsi. Unde notandum quod Alphonsus posuit adhuc duas singulas una per annos collectos alia per annos expansos per mensibus autem non [illegible] tabula mensium Alphonsi quo [illegible] tabulas annorum mensium. Sed igitur cum propositum est scire per annos menses et dies ere Alphonsi 1320 [illegible] alterius ere [illegible] per tabulas propositas volueris invenire [illegible] annos Alphonsi quos si non inveneris [illegible] eram propositam reductam ad tempus tibi placitum [illegible] sub [illegible] ere propositam et Alphonsi ab era propositam reductam et [illegible] eram Alphonsi reductam ad [illegible] tempus ad quod reduxisti eram propositam post hoc de illo tempore reducto scire annos menses Alphonsi etc. Et hoc in tabula aut per tabulas que intitulantur anni collecti [illegible] Alphonsi [illegible] Cesaris et Arzachelis. Sed intrando tabulam mensium tabulam illam intra que intitulatur menses latini ad annos Alphonsi a [illegible] anno incipientes. Sed igitur anni menses et dies Alphonsi [illegible] [illegible] ut [illegible] alia tibi fuit notum tunc intra primo cum annis illorum annorum ad tabulam factam ad annos collectos et expansos per omnem modum sicut docuit canon qui incipit cum annorum mensium et dierum propositorum ad 1320 et [illegible] per tabulas ad hoc [illegible] reducere. Sed et cum mensibus et in tabula annorum collectorum [illegible] 1320 etc. que sunt ex [illegible] illorum annorum cum quibus intrasti in annos collectos que continentur sub illo titulo illius ere que in [illegible] invenire et non sub titulo alterius et [illegible] cum annis et mensibus [illegible] intrasti et annua 1320 [illegible] ubi [illegible] collegisti tunc [illegible] era [illegible] reductam ad 1320 et [illegible]. Habito igitur isto tempore reducto [illegible] ere intra tabulam [illegible] illius ere et scies annos et menses [illegible] ex 1320 et [illegible] per [illegible] modum [illegible] sed ex 1320 et [illegible] ere propositam

facit annos incarnationis christi ut liber
ostendit quia per tituli in capitibus illarum ta-
bularum prefatarum posita non aliud intel-
ligit dicta que est in[ter] eram supra nos intitu-
lata et etiam Alphonsii etc.

Unde pro correctione cuius tabule magis
radices pone primo 20 annos in 3 2 et
11 et post in 3 2 et 2 et 4 adde ad
3 2 et 1 in prima linea illarum tabularum
prefatarum que linea intitulatur radices ut
radix et secundis 2 linea. Adde cum in
ad 2 linea secundis 3 et sic cum in
addideris ad 3 linea secundis etc. et quia
tabula non aliquid per [illegible] corrigitur per
modum supra nos dictum quia illa tabula eadem est
cum illa que intitulatur anni [illegible]
ad annos regis Alphonsii et quarta etc.

Non per istam tabulam magnam de qua dictum
est prius non inveniuntur ere de quibus dictum
in annis et diebus reducte ad annos etc.

Sed potius inveniuntur in 3 16 et 26 et 16
inveniuntur reducte in 3 2 et 1 sunt
terminis eius ad 3 2 et 1 reductis pos-
sunt facilius reduci tales ad annos ut
data est doctrina supra nos et quia inveniri
per tabulam istam magnam possunt invenire pos-
sunt per doctrinam que data est in illo Ca-
none qui incipit Cognitis 3 2 et 16
a principio aliarum erarum incipientibus nobis
nota per illa 3 2 et 1 incipiet a prin-
cipio aliarum erarum incognitarum invenire et sic ista
tabula non est hic necessaria per inventionem 3 2
et 2 et 1 aliarum erarum incognitarum ponitur
tamen ideo ut dictum est propter memoriam regis
Alphonsii etc.

Notandum circa Canonem qui incipit
Notitiam anni vel mensis vel eciam diei
cuiuscumque vis invenire sicut vulgo
dicitur. Quare non imposita est
in feria dicitur invenire nota anni vel mensis
est invenire cuius die feria sit prima dies
illius anni vel illius mensis. Sed invenire notam
alicuius diei est invenire cuius die feria sit eadem
dies ut dicitur dicta 2a sit 3a etc. a ista etc.

Et sic dicendum sit ut mentio de radicibus notarum erarum
sunt radices notarum aliarum erarum est numerus
ferie diei prime in qua incipit illa era et
era christi incipit feria septima hoc est
dies circumcisionis domini nostri Jhesu christi a
qua incipimus inclusive computare

erat sabbatum et convenit intelligendum
quod de aliis et ista patet in tabula.

Radices notarum anni et dierum etc. etc.

Ad noticiam pro correctione seu compositione cuius
tabule scilicet notarum anni primo supponitur
quod in prima linea que intitulatur prima
est ponere punctas que valet unum primum
sive diem sed ad sciendum primum in 2e linee
que intitulatur 2a divide 60 prima que
faciunt unum 24 per 1 et quod remanet scilicet
pone pro primo numero cuius scilicet 2e linee.

Et divide 60 2 scilicet 3 6 eo quod tot prima
faciunt 60 2 per 1 et remanet 2 que pone
pro primo numero 3e linee que intitulatur 3a.

Et divide primum quarta 21 600 per 1
remanet unum quarta quod pono pro primo
numero 4e linee ista non secundis prima linea
cuius tabule correcta quia adde superscriptas
et secundis 2 etc. et sic eciam prima linea
addideris super 2 venerit 1a etc. quia

Ista in observato quod sic plura etc. quod composue-
runt sed ista additione tabule prima domini tractus
deponi seu abici quarta potuerint et
residuum sed sumi et poni ad locum suum
etc. propter quod tabule correctio et eciam
compositio etc.

Notandum circa Canonem qui in-
cipit Notitiam horarum punctarum
et minutorum horarum et aliarum in
fractionem ad minuta dierum et ad alias
fractiones dierum per tabulas ad hoc factas
reducere. Alphonsii ad hoc faciendum constituit
duas tabulas quarum prima deservit ad
conversionem horarum solum in minuta et 2a
dierum ut sit pro titulo cuius tabule ipso enim
per intitulatur tabula conversionis horarum
in minuta et alias fractiones dierum
cum tabule linea numeri in qua prima numerus
horarum continetur sit ad 2 et solum quia
2 et hore diem naturalem constituunt sed 2a
non deservit ad convertendum minuta et ceteras
fractiones dierum quod plus quia titulo eius
ipso sequitur se intitulatur tabula ad sciendum
minuta dierum et ceteras fractiones. Sed quo
quo prima tabula continetur in 2a totaliter ut
patet intuenti quod per 2 tabula tabule hore quod
eciam fractiones horarum prius convertunt
in minuta et ceteras fractiones dierum
solo isto notato quod quando intrat cum numero
horarum in linea numeri quod tunc prima tabula per
lineam numeri inveniuntur dies in 2a minuta

in tabula nec 2 dierum sed intrandum cum
numero horarum in lineam numeri solet in 3a linea
per lineam numeri invenient minuta in 2a 2
in 3a 3 dierum proportionaliter sub suppositione
cuiuslibet tabule etc. Est notandum circa eundem
Canonem dies naturalis comprehendit diem
artificialem et noctem artificialem dividitur
partes [illegible] 2m unam divisionem in 24
partes scilicet equales horarum quelibet partium
nomen hore equalis assumit Rursum
unaqueque hora equalis in 60 partes
dividitur equales que partes vocantur minuta
horarum Amplius minutum hore unum aliud
60 parte capit fractiones quibus impositum
est hoc nomen 2 et sic quintum 3orum 4orum
et ceterarum fractionum horarum ratio una
est secunda sive secundum aliam non divisio
cuiuslibet diei naturalis in 60 partes equales
partium non cessat quorum unaqueque
particularum minutum diei est vocatum
Est vero quod minutorum diei in 60 fractiones
partes quibus nomen est 2 diei et
sic ulterius ut erat secundum 2m rationem
primum annotatam etc.
Est notandum si horas et alias horarum
fractiones et minuta et ceteras fractiones
dierum sive tabulis reducere volueris
Reduce primo horas et suas fractiones
ad eius genus reductarum divide per 24
et unus quociens erit illius denominationis
cuius fractiones fuerunt quas divisisti qui
unus quociens si non 60 fuit reducatur
ad grossiores fractiones quando dividendo
per 60 et habebis intentum Amplius si
quod remanet post divisionem per 24 fuerit
illud multiplicetur in 60 et provenient frac
tiones inmediate subtiliores quam eadem fractiones
quas prius divisisti et iterum divide per 24
quod prius ut minutiorem denominationem in divi
sione ista cadit et illud quod per istam divi
sionem inveneristi ponas post alias frac
tiones ad locum suum et post quod inveneristi quod
quibus tue ponas quod ad suum locum
scilicet tabulis [illegible] distinctionum
1 2 3 4 et cetera etc.
Sed per Conversionem capitis dierum tabularum
supponitur tractatus Notandum primo ponitur duo
minuta et 3a 2 dierum et sicut [illegible] duo
dividuntur in 60 minuta una divisione ad
non divisione in 24 horas ut datum 2 sup

et quod hora in 60 minuta etc. et sic dividendo
60 minuta diei per 24 horas cuilibet hore convenit
2 minuta diei et remanent post hanc divisionem
12 minuta diei que multiplicata in 60 proveniunt
[illegible] 2 diei et post hoc iterum productum per 24 di
datur et in numero quociens veniet 30a 2 [illegible]
[illegible] tabula in prima eius linea ponitur 2 minuta
et 30a 2 quas linea si supposita addita fuerit
proveniet 2a linea et si super 2a proveniet
3a linea et sic quintum et usque [illegible]
cuiuslibet tabule et compositio etc.
Est notandum circa illum Canonem qui incipit
Capita dierum et 2 3 4 etc. ad horas et minuta
horarum etc. per tales ad hoc sunt reduce [illegible]
sic [illegible] scilicet minuta 2 3 4 etc. dierum ad horas
et cetera horarum sive tabulas reducere volueris
Reduc minuta dierum et alias fractiones
dierum ad eandem denominationem sive ad eius genus
et quodlibet [illegible] denominationis sit tale productum
post modum productum multiplica in 24 et denominationem
non mutat post eam [illegible] reduc ad fractiones
grossiores tale productum quotiens per 60 dividendo
et habebis intentum exemplando 2m modum ponitur
in tali divisione per 60 sed per Conversionem
tabule cuiuslibet que intitulatur tabula ad faciendum horas
et earum fractiones per minuta dierum et earum frac
tiones Nota primo multiplica 24 per 60 et productum
divide per 60 et habebis 0 in horis et 24 in
minutis horarum et per quod habes in prima linea
quod adde super se et habebis 2am et si eandem primam
lineam addideris super 2am habebis 3am et sic
quintum et sic patet processus etc.

Tercium notandum circa Canonem qui
incipit sic quando intelligitur per hoc
nomen radix talis motus vel
talis etc. Et nota sic radix [illegible]
quod notandum quod quidam illorum motuum considerantur
in orbe signorum .i. zodiaco et dicuntur medii
motus Alii non considerantur in epiciclo et
dicuntur argumenta Amplius motuum in orbe
signorum consideratorum quidam computantur a principio
arietis sicut sunt medii motus omnium plane
tarum et Caput draconis Quidam autem
a medio motu solis computantur sicut media
elongatio lune a sole Quidam non a motu
Capitis draconis sicut medium argumentum
latitudinis lune Et Alphonsus omnes
istas radices posuit in era Christi et
sicut planete sunt diversarum [illegible] diversi
tituli ad diversas tabulas componuntur et patet
ideo Rursus omnes radices motuum dicuntur
quod sunt medius motus planetarum

Qualiter debeant reduci radices
tolletanos ad Crac.

Et notandum quod radices ille sunt posite solum super
meridianum Tholeti que est civitas in
Hyspania cuius longitudo a meridie ultime
regionis habitabilis occidentalis est
11 graduum latitudo vero eiusdem civitatis est
39 graduum et 54 minutorum et propterea omnes
equaciones que sunt super radices Tholeti
solum valent tantum respectu meridiani
Tholeti. Cum igitur volueris radices illos
reducere super meridianum civitatis alterius
scire te oportet quanta sit longitudo illarum
civitatum, id est quot gradus et minuta equinoctialis
sunt medium inter meridianos scilicet Tholeti
et civitatis tue super quam meridianum
locacionis volueris reducere. Longitudo enim
regionum vel civitatum non est aliud nisi
arcus equinoctialis contentus inter meridi-
anos illarum civitatum vel regionum.
Vide ergo quot sunt gradus et minuta illius arcus
inter predictos meridianos contenti quos
gradus et minuta reducas ad horas et
fracciones horarum et illas horas cum
suis fraccionibus ulterius reduc ad minuta
et secunda dierum ad quibus queras medium
motum cuiuscumque planete vel capitis draconis
et sua ad partem postmodum [illegible]
Si civitas tua sit orientalior vel occiden-
talior quam Tholetum et si civitas tua
fuerit orientalior vel occidentalior tunc
medium motum distancie sumptum subtrahe
a radice Tholetana. Si vero civitas
tua fuerit occidentalior adde et quod per
addicionem vel subtraccionem provenit erit radix
ad locum tuum reducta. Verbi gracia volumus
reducere radices Tholetanas ad civitatem
Cracoviensem sive super meridianum civitatis
Cracovie. Ergo primo quere distanciam longitudinis
inter meridianum civitatis Cracovie et meridianum
Tholeti unde longitudo primo inter Tholetum
et Pragam est 18 graduum et 30 minutorum
que ascendunt in una hora et 14 minutis
que equivalent 3 minutis et 4 secundis dierum.
Sed inter Pragam et Cracoviam longitudo in
regionibus est 3 graduum et 30 minutorum que
super orizonte elevantur in 14 minutis hore
que 34 secundis dierum equivalent et per consequens
tota longitudo inter Tholetum et Cracoviam
est 22 graduum in qui gradus elevantur

in una hora et 28 minutis hore quod valent
3 minuta et 40 secunda dierum. Sed ut alibi
inter Pragam et Cracoviam longitudo
ponitur 3 graduum et 6 minutorum que super
orizonte in 12 minutis et 24 secundis horarum
elevantur que 31 secundis equivalent et sic in
toto longitudo inter Toletum et Cracoviam
erit 21 graduum et 36 minutorum que in
una hora 26 minutis et 24 secundis horarum
super orizonte ascendunt que ultimis
3 minutis et 36 secundis dierum equivalent
et hec forte magis propinqua est veritati.
Cum quibus igitur secundis dierum intra tabulas
mediorum motuum sic facias ut dictum
est et quia Cracovia est civitas orien-
talior subtrahe ergo medium motum cuiuscumque
planete vel capitis draconis inventum a radice
Toletana et habebis radices Thole-
tanas reductas ad meridianum
Cracovie. Sed modus inveniendi distanciam
duorum civitatum meridianorum est multiplex
quorum primus est si ipse inveneris ad tabulam
longitudinum regionum et quere longitudi-
nem loci radicum postmodum quere longi-
tudinem regionis tue et tunc subtrahe
minorem de maiori et remanebit distan-
cia civitatum meridianorum in gradibus. Sic
igitur per eos horas et horarum minuta per ca-
diendum et quot minuta et secunda dierum sunt cum
quibus intra tabulas mediorum motuum ut
dictum est et iste modus solum est verus
si inveniuntur ambe regiones vel ci-
vitates in tabula longitudinum regionum
[illegible] quod tabula in [illegible] sit bene posita.
Secundus vero modus est iste. Cum per
eclipsis lunaris ex tabulis loci radicum
per modum super eclypsis lunaris quod ex tabulis
inceperit sed in civitate ista cuius distan-
cia queris et cum luna inceperit intrare
umbram terre accipias altitudinem
alicuius stelle fixe in astrolabio super
latitudinem tue regionis inscripte
ponasque tantum eiusdem stelle in almi-
cantarat altitudinis sue et invenias
tempus quod est elapsum a principio
meridiei usque ad illud tempus post
ea subtrahe minus a maiori et id quod
remanebit erit distancia inter duas
civitates et iste modus certus est et verus.
Tercius vero modus est talis. Cum
sciveris primo quod luna fuerit in linea meri-
dionali sive in circulo meridiano

Cum ergo in aliquo die et hora per astrolabium vel aliud instrumentum astronomicale gradum vel minutum in quo luna illo tempore illo tempore celum mediat inveneris. Cum ergo per hoc que utrum locus lune super meridianum radicem ciuitatis hora dicti et preterea radices medij motus lune et solis et argumenti medij lune et operare in canone veri motus lune et habe verum motum lune sicut et si verus locus lune super meridianum radicem tunc inventus concordat cum gradu et minuto veri motus lune per astrolabium in tua ciuitate inventis sine dubio sunt longitudo meridianorum radicem et tue ciuitatis vel est sed sunt in eadem longitudine. Si autem motus lune inventus per astrolabium in tua ciuitate fuerit maior motu lune invento super meridianum radicem tunc tua ciuitas est occidentalior. Si minor tunc tua orientalior. Deinde vide subtrahe minorem motum a maiori et differentia est verus locus lune qua differentia pertransit luna in zodiaco currendo ab uno meridiano ad alium. Ex differentia sua qua inventa secundum proportionem per estimacionem quod invenitur distantia longitudinis pertransit ipsius orientem vel occidentem quantum sunt inter istos meridianos scilicet radicem et ciuitatis tue et tempus per quibus scilicet 15 [illegible] unum gradum sex et minuta hore sunt 10 diei et invenies tempus hora medium motum solis et lune et argumenti medij lune quod medium motum sub trahe a radice medij motus solis lune et argumenti lune radicem si ciuitas tua fuerit orientalior vel adde si fuerit occidentalior hoc facto quod ad certas radices per sub tractionem inventis scilicet medij motus lune solis et argumenti lune verum locum lune computando lunam in canone veri motus lune ad horam diei predicti scilicet quo recepisti cum instrumento gradum lune quod luna erat in medio celi. Et si verus motus tunc inventus concordat cum illo loco lune invento per astrolabium tunc bene computasti distantiam inter predictos meridianos. Si non, ciuitas tua fuerit orientalior et verus motus tunc inventus per novas radices fuerit maior loco lune invento per astrolabium distantia predicta computata inter duos meridianos fuit nimis parva et si fuerit occidentalior fuit nimis magna. Si vero ciuitas tua fuerit occidentalior et verus locus lune tunc inventus per duas novas radices fuerit minor loco lune invento per astrolabium distantia predicta computata inter duos meridianos fuit nimis magna et si fuerit orientalior fuit nimis parva. Hoc facto itera computationem aliam maiorem vel minorem secundum quod oportet. Quere per predictum modum verum locum lune ad horam diei predicti et sic oportet te totiens querere verum locum lune quod est mediationis donec verus locus lune inventus per novas radices. Cum ergo tunc concordat cum vero motu lune recepto per astrolabium. Et per hunc modum et processum sunt una hora et 19 minuta que equalent 3 minuta et 4 secunda dierum quibus correspondent in motu lune 1 gradus et 30 minuta in terra nostra dicta [illegible] supra ciuitatem [illegible].

Secundum per correctionem tabule illius que intitulatur tabula revolutionis annorum mundi in suis fractionibus. Sol in uno anno non potest revertere ad idem punctum equinoctii. Sed ultra hoc requiritur in hoc 5 9 minuta et 16 secunda que posui de uno primo lunca que si addatur super se provenit 2 4 et si iterum prima addita fuerit super secunda provenit 3 et sic quodlibet. Et isto in predicto quotienscumque provenerit plures horas quam 24 tunc debes deponere 24 et residuum servari in loco suo.

Item per correctionem alterius tabule que intitulatur tabula revolutionis ascendentium annorum. Secundum quod in prima hora equali que est 24 pars diei naturalis ascendunt 15 gradus equinoctialis et in 4 minutis hore unus gradus et in uno minuto hore ascendunt 14 minuta gradus et in 4 secundis hore ascendit unum minutum gradus. Unde corrigendo tabulam predictam capiatur hoc quod est posita in linea prima tabule revolutionis annorum mundi in suis fractionibus intitulate et per quamlibet horam capiatur 15 gradus et pro quibuslibet 4 minutis hore capiatur unus gradus et pro quolibet minuto hore 15 minuta gradus et pro quibuslibet 4 secundis unum minutum et horas predictas linee tabule revolutionis ascendentium. Si non tunc hoc volueris adde eandem super se et habebis tunc et si eandem addideris super secundam habebis tertiam et quodlibet. Isto in predicto quotienscumque provenerint 360 gradus dimitte ipsos et residuum tene in loco suo. Sed tamen adverte quod hic non posui que posui in primo loco linee 2 et 3 que in tabula revolutionis annorum mundi

non ponit tria horarum quibus consultacionem
illa [illegible] in Dene ibi ponit et
patet
Item iuxta easdem tabulas Anno domini 1
421° impleto sol intravit in primum minutum
Arietis diebus non equatis 8 horis 9 minutis 8 secundis 2 tertiis 1
12 quartis diebus non equatis 11 horis 2 minutis 46 secundis 44
et hoc respectu meridiani Cracoviensis
Item Anno domini 1420° impleto sol intravit
in primum minutum Arietis diebus non equatis 8 horis 11
8 38 27 quartis diebus autem equatis 11 horis
56 46 respectu meridiani Cracoviensis
Hec dicta valent pro radicibus ad tabulam
revolucionum annorum mundi in suis fraccionibus
Item nota Anno domini 1421° incompleto
ascensiones tempore introitus solis in Arietem
130 gradus 40 minuta 32 secunda
Item ascensiones tempore introitus Solis
in Arietem Anno domini 1422° incompleto
211 gradus 49 minuta 38 secunda

Notandum circa Canonem mediorum motuum
qui sic incipit Medium motum solis
et lune etc. per tabulas invenire. Et
ideo in isto Canone solum docet quomodo
medius motus planetarum ad tempus futurum habeat
inveniri sed quomodo medius motus planete
ad tempus preteritum potest inveniri ibi non docet
et ponit. Si ergo volueris medium motum
alicuius planete ad tempus preteritum invenire
fac sic. Considera primo ad quem tempus tuum principium
erit aliud volueris scire et illud tempus reduc
ad [illegible] et [illegible] annorum sic facto [illegible]
[illegible] etc. in tabula medii motus quem invenies
[illegible] volueris non [illegible] aliquam radicem
[illegible] omnes medios facies et minores adde
addideris tunc subtrahe illud quod provenit a radice
medii motus illius erit anni [illegible]
motus incidens invenire a radice [illegible] illius
medii motus quem volueris invenire et si non
possis subtrahere tunc mutua semper [illegible] si ha
bueris signa [illegible] aut [illegible] si fuerit quantumcumque
et tunc subtrahe [illegible] a toto collecto et habebis
medium motum planete ad tempus preteritum super eundem
meridianum super quem radices a quibus motum
tuum subtraxisti fuerint constitute. Unde sicut
invenire motum planetarum ad tempus preteritum et per
futurum per [illegible] aliqua radice [illegible]
ad aliquam certam certa habita. Et per [illegible]
tabula [illegible] ad aliud Cor
rige omnes radices cuiuslibet motus aliarum
civitatum etc. etc. [illegible]

Item notandum circa Canonem de die coniunctionis
et opposicionis et quadrature medie sunt [illegible]
aspectum mediorum quod est solis et lune
Capitulo eiusdem Canonis habetur de quadratura
media prima que dicitur primus aspectus
medius et sic de quadratura media 2a
que dicitur 2us aspectus medius unde
primus aspectus medius lune ad solem
dicitur esse quando inter medium solis et inter me[dium]
motum lune per [illegible] incipiunt 90 gradus sic
tria signa quia seu unum signum signum [illegible]
[illegible] et 30 gradus computando a sole versus
lunam secundum ordinem signorum et hoc fit per se
in tempore medio inter medium coniunctionis et opposicionis
Secundus aspectus dicitur esse quando inter medium
motum luminarium per se incipiunt 270
gradus seu 9 signa quia [illegible] est sine [illegible]
[illegible] et 30 gradus computando [illegible] a sole
versus lunam secundum ordinem signorum et hoc
fit per se in tempore inter mediam inter opposicionem mediam
et coniunctionem mediam [illegible] luminarium Item
notandum quod in Canone dicitur [illegible]
[illegible] volueris primam coniunctionem anni que
[illegible] ut habetur ibidem sed quod primo debet queri
media elongacio ad medium anni unde
talis elongacio aut erit plus tribus signis
[illegible] aut minus Si plus tribus tunc
annus iste erit coniunctionalis Et tunc erge
coniunctionem anni ad eandem elongacionem sic
subtrahendo [illegible] elongacionem ad medium
anni a 6 signis et quod est residuo in
[illegible] Tabula ut dicitur in
Canone quod coniunctionem invenias [illegible] in
Cartha Et sic [illegible] medium motum solis
et medium argumentum lune et medium argumentum
latitudinis lune ad eandem coniunctionem et similiter
toto simul [illegible] tolle
Si annus erit coniunctionalis tunc adde super tempus
coniunctionis 14 dies etc. ut habetur in Canone
et habebis opposicionem primam Item adde super
medium solis tempore coniunctionis medie [illegible]
12 et super medium argumentum lune 3 [illegible]
Et super medium argumentum latitudinis lune 44 30
eiusdem coniunctionis medie inventi [illegible] 14 20
[illegible] et habebis medium motum solis et medium
argumentum lune et medium argumentum latitudinis
lune ad opposicionem [illegible] sine labore
[illegible] igitur hoc omnia pro toto anno quod
[illegible] radices coniunctionis et opposicionis anni eiusdem
Si vero media elongacio medii principii
anni fuerit minus tribus signis tunc annus
erit opposicionalis quia [illegible] prima opposicionem

mediam cum tali elongatione media et
motu in Canone scitum scilicet per tabulam
cum ceteris signis et gradibus et post invenisti
tempus propinque oppositionis vel coniunctionis et ad illud
tempus medium motum solis medium argumentum
lune et medium argumentum latitudinis
lune et fuerit per totum annum et prima
inventio est tibi prima coniunctio si autem
fuerit oppositionalis primo est coniunctione oppo-
nibus et fiet illud negotium per radicibus
ante illius radicibus coniunctionis et
oppositionis vero computatis cum volueris facere
alias coniunctiones et oppositiones sequentes
et plus medios motus et argumentum medium
alicuius eiusdem temporis et plus medium
motum etc. ut predictum est et habebis etc.
Aut vero circa eundem Canonem ubi dicitur si non
non provenit de signis preter tria signa
super ut in una signum et 30 gradus
super dico si volueris facere coniunctionem subtrahe
illud quod provenit de 6 signis et residuum
fuerit etc. hoc autem solum verum est si coniunctio
media sive oppositio media sive coniunctio
media fuerit futura in ordine cum illud
tempus quod ad quod computasti mediam
elongationem tunc cum si volueris facere con-
iunctionem subtrahe illud de 6 signis similiter
oppositionem subtrahe de tribus etc. Et si coniunctio
oppositio seu coniunctio media vero transierit hoc
est precedit tempus ad quod reduxisti eius
tunc non oportet etc. productum subtrahe a
6 signis vel a tribus etc. Sed cum totum
pertinet intra tabulam medie elongationis
et fiet ut alibi scitum similiter ubi dicitur
in tertio Canone quo facto dico instanti
dierum et ceteris fractionibus quibus per
operationem invenisti eidem tempori ad quod
computasti mediam elongationem et quod
per additionem provenit erit tempus coniunctionis
vel oppositionis seu coniunctionis medie. Hoc
vero intelligendum est si coniunctio seu oppositio
vel coniunctio media quam queris
fuerit futura si vero coniunctio fuerit preterita
sive oppositio sive coniunctio media quam queris
Et tempus scilicet dictum si adiecti fuerit minuta
dierum et ceteris fractionibus quod per operationem
invenisti subtrahe a tempore ad quod computasti
mediam elongationem et quod per subtractionem
provenit seu remanserit erit tempus medie
coniunctionis oppositionis medie vel coniunctionis medie
Ad congruendum autem quod coniunctio media fuerit futura

vel preterita respectu illius temporis ad quod reduxisti etc.
tunc per quam erat querens mediam elongationem
Et ideo si productum per omnes introitus in tabulam
medie elongationis fuerit plus tribus signis
ut puta 4 vel 5 coniunctio est futura et tunc
subtrahe illud productum a 6 signis ut docet
Canon et remanebit distantia seu media
elongatio solis et lune. Cum autem distantia
seu residuum intra tabulam etc. Si vero
tale productum fuerit minus tribus signis coniunctio est
preterita etc. tale productum non oportebit te
subtrahere a 6 signis quemadmodum coniunctionem sed
pertinet cum eo intra et tempus productum per
omnes introitus subtrahe a tempore ad quod computasti
mediam elongationem ut supra patet etc.
Et sic est finis istius operis etc. Deo gratias

Item circa Canonem introitus solis
in duodecim [illegible] ut in capite de signis
[illegible] [illegible] intellectu
Cum verus locus solis ad tempus introitus
eius in duodecim per estimationem [illegible]
inventus fuerit et ad aliquod considerare volueris
an sol sit in tempore estimato etc. principium
arietis ut in eius principio ut [illegible] eius
principium iam transivit hoc est dicere in
quibus considerare volueris utrum introitus
illo solis in arietem [illegible] tempore fuerit adequatus
futurus vel preteritus vel presens [illegible]
si verus locus solis ad idem tempus estimatum
inventus fuerit precise signis pervenit fuerit
[illegible] si fuerit quotquot signorum et aliquot
gradus etc. scilicet solem illo tempore esse
aut [illegible] duodecim et introitum eius
futurum. Quia si verum locum solis invenies
a 6 signis subtrahe et per subtractionem
remanebit solis distantia ut solem a
principio duodecim etc. quia distantiam per motum
solis unius diei in uno minuto diei per motum
solis [illegible] in canone [illegible] divide et
in canone duodecim invenito quia introitus
tempore per [illegible] futurum est ut [illegible] in canone
solis futurus est et venerit solis tempus solis dati
addere et [illegible] tempus [illegible]
[illegible] [illegible] ut nunc [illegible]
Si vero verus locus solis tempore estimato
inventus est signorum precise fuerit sicut
[illegible] [illegible] [illegible] fuerit
[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] et tempus istud estimatum
esse tempus veri introitus solis
in arietem. Si autem locus
solis [illegible] sit signum quod fuit ita
quod ultra sit signum fuit aliquis
gradus et minuta [illegible] vel gradus et
minuta fuerint, erit solis tempore
estimato. Accipe [illegible] partem [illegible]
et [illegible] eius in partem arietis
[illegible] ad quantum illud inter locum
solis ad signum ad equationem
distantiam inter partem arietis
et solem [illegible] appareat.
Si gradus tamen [illegible] vel gradus et
minuta que ultra sit signum
[illegible] fuerint [illegible]
[illegible] sit illa [illegible] distancia
[illegible] distantiam [illegible]
[illegible] solis in uno minuto
[illegible] in [illegible]
[illegible] tempus
[illegible] in [illegible]
[illegible] et introitus [illegible]
[illegible] in [illegible]
Et [illegible] tempus [illegible]
[illegible] Solis in arietem [illegible]
vel minime valet [illegible]
Si [illegible] [illegible]
[illegible] ad illa distantia
[illegible] [illegible] solis
in [illegible] illa [illegible]
introitus solis in partem [illegible]
in [illegible] in quantum
[illegible], et [illegible]
[illegible] in [illegible]
locus Solis ad [illegible]
solis in [illegible]
[illegible]. Ideo [illegible]
[illegible] tempus [illegible] introitus solis
in partem arietis est 11 die
marcii, in thaurum 10 die
aprilis, in geminos 11 die
maii, in cancrum 12 die
junii, in leonem 14 die
julii, in virginem 14 die augusti,
in libram 14 die septembris,
in scorpionem 14 die [illegible]
octobris, in sagittarium [illegible] 12
die novembris, in capricornum
12 die decembris, in aquarium
12 die Januarii, et in pisces
9 die februarii sic.
Ad [illegible] Si non volueris estimare
[illegible] in arietem [illegible]
[illegible] [illegible]. Si [illegible]
[illegible] [illegible] in aliquod
aliud signum. Tunc [illegible]
[illegible] partem arietis, et [illegible]
aliud signum [illegible] introitus
[illegible] [illegible]
[illegible] [illegible] inter locum
solis ad [illegible] quo estimas
[illegible] illud signum [illegible]
[illegible]
[illegible] in [illegible] loco solis, [illegible]
[illegible] Tunc
[illegible] in [illegible] aliud
signum [illegible] estimato. Si [illegible]
[illegible] locum Solis [illegible]
[illegible] inter locum
Solis ad [illegible]
[illegible] in illo
signum [illegible]
[illegible] distantiam
solis [illegible] signo ad [illegible]
[illegible] solis [illegible] ad
[illegible] distantia [illegible]
[illegible] et [illegible]
[illegible]. Si [illegible]
[illegible] locum solis [illegible]
[illegible]. Tunc [illegible]
[illegible] Illud [illegible]
[illegible] [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] tabularum
[illegible]

[illegible] in [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

totius

equacionibus dierum, id est motu [illegible]
solis medio [illegible]
[illegible] quo [illegible] equacionibus
[illegible]
[illegible] 19 [illegible] 8 [illegible] 19 [illegible] et [illegible]
[illegible] 360
[illegible] 19 [illegible] 8 [illegible]
[illegible] 19 [illegible] equacionibus [illegible]
[illegible]

[illegible] loci polus [illegible]
[illegible]
[illegible] ad tabulas [illegible]
[illegible] in capite
tabule [illegible]
[illegible]

Figura celi



Nota primo veram coniunctionem Solis
in 3° [illegible] Capricorni, ubi
celebratur Solstitium yemale, scilicet
anno domini 1423 in [illegible]
[illegible] [illegible] est [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] est [illegible] 2 24
22 11 [illegible] [illegible] [illegible] [illegible]
est [illegible] 4 [illegible] 16 47 2 [illegible]
[illegible] [illegible] [illegible] 1 30 29 11 9
[illegible] [illegible] 2 78 49 33 77
[illegible] [illegible] [illegible] 0 2 40 2
[illegible] [illegible] [illegible] [illegible] [illegible]
4 29 13 76 0 [illegible] [illegible]
[illegible] est 9 [illegible] [illegible] [illegible]
[illegible] 7 30 [illegible] [illegible]
[illegible] [illegible] [illegible] ad [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] 0 0 46 3 0 [illegible]
[illegible] in 34° 2 9 6 3 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 4 29 19
44 1° [illegible] [illegible] 2 78 40 33 3
[illegible] 9 0 2 46 41
[illegible] [illegible] [illegible] 4 29 14
79 24 [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] [illegible] 1 1 29
[illegible] est [illegible] [illegible] in [illegible]
[illegible] in [illegible] [illegible] [illegible] [illegible]
in 34° 36 8 9 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
in 34° 16 7 9 8 9 [illegible]
[illegible] [illegible] [illegible] in [illegible] [illegible]
in 34° [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 44 76 29
[illegible] [illegible] [illegible] [illegible] quo
[illegible] [illegible] est [illegible] [illegible]
[illegible] [illegible] [illegible] 2 24 22
11 [illegible] 76 29 vel [illegible]
[illegible] 44 76 24 [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] 4 30 13 29
[illegible] [illegible] [illegible] [illegible] 2 79 33
12 13 [illegible] [illegible] [illegible] 0 1 2
43 [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] 4 30 0 0 39
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] p 3 39 que
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] est [illegible] 8 0
36 [illegible] [illegible] [illegible] in [illegible]
et [illegible] in [illegible] [illegible]
in [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] 2 24 22 11 [illegible] 44 77
44 [illegible] est [illegible] 44 77 44
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 4 30
1.2.47 [illegible] [illegible] [illegible]
2 79 33 [illegible] 38 [illegible] [illegible]
[illegible] 1.2. 43 [illegible] [illegible] [illegible]
[illegible] [illegible] 4 30. 0.0.2
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] 3a [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible]
[illegible] in [illegible] [illegible] est
[illegible] 44 77 44 [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] [illegible] est [illegible]
78 19 36 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

12 [illegible] ad [illegible]
[illegible] eclipsis
[illegible]
[illegible] dyametri
Solis et [illegible] dyametri [illegible]
[illegible]

[illegible]

[illegible]

[illegible]

	m	2
Dyameter solis	33	4
Dyameter lune	36	11
Semidyameter solis	16	32
Semidyameter lune	18	7

[illegible]

Ad propositum geometrice [illegible]

[illegible]

[illegible] tabula [illegible] 1428 [illegible]
[illegible]
[illegible] eclipsis [illegible]

[illegible]

latitudinis lune [illegible] eclipsis ad [illegible]
et equalibus horis [illegible]
[illegible] eclipsis [illegible]
[illegible] eclipsis lune die [illegible] 1422
in [illegible] 2a die augusti [illegible]
[illegible] 27 [illegible]

[illegible] eclipsis [illegible]

[illegible]

[illegible]

214

[illegible]

[illegible]

[illegible]

in tercium solis in terciam faciei et dictum est de omnibus particulis facierum omnium signorum. Et hoc quod tempus in isto tali loco quater verus motus solis et si inveniatur precise scilicet arcus in vero loco solis secundum arcum quem intermi- nari, tunc cum debes eius inte- rum. Si vero maior sit arcus quem invenisti in vero loco solis tunc iam sol pertransivit talem locum quem subtrahat ille locus arcus quod intermi- nare a vero loco solis et remane- bit distancia solis a loco quem dispedas que distancia dividatur per motum solis in vno minuto vel et tempus per talem disposicionem invenitur sit habitum atque quod inquirebas esse ad tempus quesitum vel ut dictum est de ariete superius. Si vero arcus in vero loco solis inventus fuit minor quam arcus quem intermi- nari, tunc subtrahatur verus locus solis inventus ab illo arcu et remanebit distancia et tunc introitus solis in talem locum est futurus quam illa distancia dividatur per motum solis in uno [illegible] minuto diei et tempus per talem disposicionem ad- datur ad tempus quesitum sicut ostendatur in principio recepte vel ut habetur in Canone de introitu solis in arietem de 1° arcu a quo debet subtrahi de adicien- tio vel quem subtrahi debet ad- sit secundum dictum est. Si queritur introitus solis in arietem secundum primam faciem eius tunc verus motus solis ad tempus quesitum inventus subtrahi debet a [illegible] signis. Si vero queritur introitus solis in secundam faciem eius tunc talis verus motus solis debet subtrahi a 10 gradibus quia secunda facies arietis incipit a primo termino facie scilicet a primo arietis per 10 gradus completos. Si vero queritur introitus solis in terciam faciem tunc subtrahi debet a viginti gradibus

Et vero quia tercia facies arietis incipit a vigesimo gradu a primo arietis. Si vero queritur introitus solis in thaurum et in primam faciem eius tunc verus motus solis subtrahi debet a 30 gradibus sive ab uno signo quia idem est. Et vero quia prima thauri sive prima facies eius distat ab ariete per 30 gradus. Si vero queritur in secundam faciem thauri tunc subtrahendus est a 40 gradibus. Si in terciam tunc a quinquaginta. Item si queritur introitus solis in signum geminorum et in primam faciem eius tunc subtrahi debet ab uno signo completo. Si in secundam faciem tunc ab uno signo et 10 gradibus. Si in terciam tunc ab uno signo et xx gradibus. Item si queritur in primam cancri sive in primam faciem can- cri tunc subtrahendus est ab uno signo com- pleto et 30 gradibus. Si in secundam tunc ab uno signo completo et 40 gradibus. Si in terciam tunc ab uno signo semper completo et 50 gradibus. Item si queritur introitus solis in primam sive in primam faciem leonis tunc verus motus solis ad tempus quesitum inventus tunc subtrahendus est a duobus signis. Si in secundam faciem tunc a duobus signis et 10 gradibus. Si in terciam tunc a duobus signis et viginti gradibus. Item si queritur in primam sive in primam faciem virginis tunc sub- trahi debet a duobus signis et 30 gradibus. Si in secundam tunc a duobus signis et gradibus 40. Si in terciam tunc a duobus signis et 50 gradibus. Item si in primam faciem libre tunc a tribus signis. Si in secundam tunc a tribus signis et 10 gradibus. Si in terciam tunc a tribus signis et 20 gradibus. Item si queritur in primam faciem Scorpionis tunc a tribus signis et 30 gradibus. Si in secundam tunc a tribus et 40. Si in terciam a tribus ad quinquaginta gradibus. Item si queritur in primam faciem Sagittarii tunc subtrahendus est verus motus solis ad tempus quesitum a quatuor signis. Si in secunda tunc a quatuor et 10 gradibus. Si in tercia tunc a quatuor et viginti gradibus. Item si in primam faciem Capricorni tunc a quatuor signis

et 29 g. Et in sedibus tunc a quatuor signis
et 20 g. si in terra tunc a quatuor signis et
70 g. Et quintum in prima facie aquarii tunc
a quinque signis, si in terra tunc a quinque signis
et 10 g. si in terra tunc a 7 signis et 20
g. 89 ... si quintum in prima in prima
facie tunc a 7 signis et 70 g. si in
sedibus tunc a quinque signis et 20 g. Et
si in terra tunc a quinque signis et 170
g. Verbi ... per ... ...
ad distantiam ... quousque ...
[illegible]

[illegible]

Alius ... [illegible]

[illegible]

		Duo [illegible] Sig	g	m	2	3	Duo [illegible] Sig	g	m	2
Aries	Mar	11	1	10	4	..	11	1	18	18
Taur	Ap	10	18	33	36	34	10	18	11	33
Gem	Ma	12	0	27	48	46	12	0	44	9
Canc	Ju	12	13	13	24	46	12	13	30	28
Leo	Jul	14	2	7	23	24	14	2	26	12
Virgo	Au	14	8	3	[illegible]	48	14	8	[illegible]	47
Libra	Sep	14	1	37	34	10	14	1	49	40
Scor	Oc	14	7	8	49	18	14	7	44	12
Sag	No	12	20	11	34	14	12	20	44	[illegible]
Cap	De	12	4	26	12	10	12	4	42	28
Aq	Ja	10	12	36	6	46	10	12	38	24
Pis	Fe	19	3	37	34	22	9	3	36	2

34

Cum ergo quis [illegible] scire [illegible] in [illegible] sole in aliquo [illegible] et [illegible]

Item nota ad videndum diversitate-
m meridiani Tollethani
et meridiani Craco-
viensis est sciendum quod longi-
tudo illarum civitatum i. quod
gradus equinoctialis inter
meridianum Tollethanum
et Cracovie meridianum
longitudo est regionum et
civitatum et aliud est in
circulis equinoctialis inter ce-
teros est meridianos earum
civitatum et regionum. Unde
nota quod inter Cracoviensem
meridianum et Tollethanum
sunt 21 gradus et 36 minuta
que conveniunt in [illegible] horis
et 26 minutis et 24 secundis que-
libet 4 minuta et 2a valent
3 minuta 36 $\frac{1}{2}$. Et [illegible]
tempore quodlibet sunt minu-
ta [illegible] plenitudinis et
ar[illegible], et [illegible] sunt ante
[illegible] Tollethanis quam
Cracoviensis [illegible] ante me-
ridiem quod Tollethi
et [illegible] vide
ad civitatem Cracovie [illegible]

Tempus est mensura mot[us]

ut vult Aristoteles quarto physicorum. Cum igitur motuum superiorum scientia nota est nobis temporis [illegible] ut cognita temporis quantitate quantitatibus motuum convenientem cognoscamus. Est igitur sciendum quod in divisione temporum ad usum tabularum illustris Regis Alfonsi utendum modo physico per numerum sexagenarium ut dicta tempora dispensari convenit [illegible]. Cum igitur in astronomia dies integra [illegible] collati fuerunt 60 [illegible] [illegible] punctus [illegible]. Cum igitur tabulis [illegible] fungitur in 60 minuta et minuta in 60 secunda et semper plus procedendo in temporalibus intervallis [illegible] et [illegible] in [illegible] [illegible] dicta est [illegible] Collegimus [illegible] 60 [illegible] collecti fuerunt sexagesima prima [illegible] in 2 [illegible] plus [illegible] [illegible] Et [illegible] [illegible] Et collegimus [illegible] [illegible]

Quantum igitur [illegible] quod dies vocantur [illegible] 4 60 [illegible] [illegible] et 60 [illegible] in 3 [illegible] 60 [illegible] 4to Et [illegible] non procedimus [illegible] in [illegible] plures quam 3 7 4 8 [illegible] 60 [illegible] [illegible] Si vero [illegible] in istis tabulis sunt complete [illegible] que in [illegible] sunt [illegible] in [illegible] at [illegible] procedimus [illegible] sexagenariam dividimus [illegible] in 60 partes equales [illegible] in 60 [illegible] [illegible] distinctio [illegible] Et [illegible] distinctio motuum fiat [illegible] Cum [illegible] planeta [illegible] [illegible] [illegible] [illegible]

Numerum annorum [illegible] [illegible] vobis [illegible] 4 3 2 1 [illegible] tabulas [illegible] annorum [illegible] 3 6 4 [illegible] [illegible] annorum [illegible] Et [illegible] [illegible] Et [illegible] [illegible]

[illegible]

[illegible] 3 7 4 8 [illegible]

[illegible] 1 2 9 6 0 0 0 [illegible] 4 9 1 [illegible] 9 3 0 [illegible] 2 0 0 [illegible] 6 [illegible] 1 9 [illegible] 2 4 [illegible]

[illegible] et [illegible] medie plus [illegible] unus
dierum [illegible] apud [illegible] est [illegible]
[illegible] ad tempus [illegible]
[illegible] Item facto [illegible] in
dierum preteritorum [illegible]
[illegible] pone in loco [illegible]
[illegible] deinde [illegible]
[illegible] remanserit pone
in loco [illegible] Deinde [illegible]
[illegible]
[illegible]
[illegible] pone in loco [illegible] Item [illegible]
[illegible] pone
in loco [illegible] sufficit
[illegible] ad [illegible]
[illegible] tabula
annorum. Sequitur aliud de

Numerus dierum [illegible]
dierum preteritorum [illegible]
[illegible] tabulas
[illegible]
preteritorum in tabulas [illegible] Item
[illegible]
[illegible]
[illegible] tabulas [illegible]
[illegible] in
[illegible] tabulas [illegible]
[illegible] Item [illegible] tabula [illegible]
[illegible] tabulas tabularum
Item [illegible] dierum preteritorum
in [illegible]
[illegible] collectorum. Et
[illegible] dierum [illegible] in
[illegible] in directo
[illegible] Et
[illegible]
[illegible]
[illegible] in directo in
[illegible] in
vel in tabulis deinde [illegible]

[illegible] dierum in [illegible] tabu-
[illegible] in [illegible]
[illegible] in [illegible]
[illegible] in directo [illegible]
[illegible]
[illegible]
[illegible]
Deinde [illegible]
[illegible]
[illegible]
[illegible] Et [illegible]
[illegible] tabule [illegible]
[illegible]
collectis tabula [illegible]
[illegible] et [illegible] collecti [illegible] tabu-
la [illegible]
[illegible]
[illegible] in tabulis. Et [illegible]
[illegible]
[illegible] Deinde [illegible]
[illegible]
[illegible]
[illegible] tabularum [illegible]
[illegible]
[illegible]
Et [illegible] in tabulis [illegible]
[illegible]
[illegible]
[illegible] Et
[illegible]
[illegible] tabulas [illegible]
[illegible]
[illegible] Et
[illegible] deinde [illegible]
[illegible]
[illegible] tabularum
in [illegible]
[illegible] Et
in [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

pleta anni vicesimi septimi
Erit igitur dies domini 1326 et
sex mensibus et diebus duobus. Et quia hec
[illegible] ad istos annos intrare in
tabulas applicatum domini Christi
Ergo hoc in medio in lunari annorum
annorum collatorum 1326 sunt hoc
in medio 1000 et in medio
in quarto ordine versu 4137
24 et 30 [illegible] que sub est ad
lapidem. Et remanent
3 26 anni quos [illegible] quod
incidunt lunari annorum colla-
torum. Ergo ubi hoc in medio ad
~~[illegible]~~ [illegible] sub at in
medio 300 et in medio in
quarto ordine 30 3 26
17 [illegible] remanent 26 anni
quos [illegible] quod in [illegible]
annorum sunt hoc in medio [illegible]
[illegible] Et incipit
[illegible] Et [illegible]
[illegible] que [illegible]
[illegible] sunt hoc in medio ad
[illegible] 26 annos [illegible]
[illegible] 20 [illegible]
[illegible] in quarto 1 2 3 12 47
[illegible] et remanent 6 anni quos
quod incidunt in lunari et sunt
in quarto ordine 3 36 2 31 1
Et remanent [illegible]
[illegible] tabulam [illegible]
[illegible] in medio
3 2 1 [illegible] et remanent [illegible]
[illegible] quos [illegible]
[illegible] fuerunt [illegible]
[illegible]
[illegible] talem ordinem
[illegible] superior [illegible]
[illegible] 4 3 2 1 que sunt
in [illegible]
[illegible] fuerunt
24 143 37 3 4 1 [illegible]

Quantitas 4 3 2 1 [illegible]
[illegible] apud aliam
[illegible] 4 3
2 1 [illegible] apud
aliam [illegible] in
[illegible]. Et in tabula [illegible]
aliam [illegible] aliam que sit
[illegible]
[illegible] 4 3 2 1 fuerunt
[illegible]
aliam [illegible]
[illegible]. Et [illegible]
[illegible]
[illegible]
[illegible] precedit
[illegible]
Et [illegible]
4 3 2 1 que habet [illegible],
~~[illegible]~~ [illegible]
[illegible] 4 3 2 1 9 [illegible]
[illegible] apud [illegible]
[illegible]
[illegible] 4 3 2 1 [illegible]
[illegible]
[illegible] Et [illegible]
[illegible] nota [illegible]
[illegible] 24 143 37
2 4 [illegible] 4 3
2 1 [illegible]
[illegible] in tabula
[illegible] 4 3 2 1 [illegible]
[illegible] et [illegible]
7 4 143 x 2 2 3 1 [illegible] ad 4 3 2 1 4 2
[illegible] que [illegible]
[illegible]
[illegible] 4 24 3 1 a 2 4 3 1
Et [illegible]
[illegible] 4 3
2 1 [illegible] Sequitur

Quantitas 4 3 2 1 [illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible] 4 3 2 1 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] et [illegible] pars est in

tale [illegible] cum anno 4 3 2 1 in tabulam [illegible] annis [illegible] per dispositionem et quia ea in [illegible] sequentibus [illegible] et si inveneris unum istorum [illegible] in linea in directo in prima linea annorum collectorum. Similiter 4 3 2 1 quia habes [illegible] [illegible] [illegible] in quo habes 2 annos annorum in directo in [illegible] scribe. Deinde intra cum residuo [illegible] [illegible] inter istam tabulam [illegible] annorum [illegible] collectorum [illegible] [illegible] totius anni 4 3 2 1 [illegible]. Similiter [illegible] bisextili cum [illegible] tabula [illegible] quod [illegible] tabulas [illegible] sequentium si fuerit annus bisextilis [illegible] fuerit bisextilis [illegible] tabularum [illegible]. Notandum quod [illegible] capitulum [illegible] [illegible] [illegible] annos [illegible] [illegible] tabula [illegible] 2 [illegible] 3 [illegible] 4 3 2 [illegible] [illegible] [illegible] 4 3 2 1 [illegible] diebus [illegible] [illegible] aliud [illegible] diebus [illegible] [illegible] [illegible] aliis [illegible]. Sequitur aliud capitulum.

Nota [illegible] [illegible] tabularum [illegible] intelligendum [illegible] [illegible] 2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

est [illegible] in [illegible] in capite [illegible] [illegible] [illegible]. Deinde [illegible] [illegible] [illegible] toto tempore [illegible] [illegible] ad [illegible] [illegible] ad 4 3 2 1 quo facto [illegible] tabularum [illegible] [illegible] 4 [illegible] in directo [illegible] in linea que intitulatur [illegible] scribe [illegible]. Deinde [illegible] tabulam [illegible] cum anno 3 [illegible] in directo [illegible] in linea que intitulatur 3 scribe [illegible] [illegible] [illegible]. Deinde [illegible] cum anno 2 [illegible] in directo [illegible] in linea que intitulatur 2 scribe [illegible] [illegible] [illegible]. Deinde [illegible] cum anno [illegible] 4 [illegible] in directo in linea que intitulatur prima scribe [illegible] [illegible] [illegible] [illegible] quo facto scribe [illegible] [illegible] [illegible]. Deinde [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tabula [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Sequitur

Numerorum [illegible] [illegible] [illegible] [illegible] tabularum [illegible] [illegible] [illegible] [illegible] [illegible] tabularum [illegible] [illegible]. Deinde tabulam que intitulatur tabula [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] que intitulatur [illegible] [illegible] que in directo [illegible] scribe [illegible]. Deinde [illegible] cum anno [illegible] [illegible]

[illegible]

tabularum que intitulatur tabula ad
[illegible] minuta graduum [illegible]
[illegible] in linea [illegible] et illud quod inve-
nitur in prima linea [illegible] linearum
[illegible] sunt minuta graduum et in
[illegible] et [illegible] sed [illegible] ultima
[illegible] Deinde [illegible] habebis
[illegible] vide [illegible] ad [illegible]
tabularum in linea [illegible] et [illegible]
illud quod in [illegible] linea
[illegible] graduum et [illegible] et [illegible]
[illegible] equationis [illegible]
[illegible] et ad [illegible] minuta
[illegible] in proxima linea [illegible] minuta
graduum. [illegible]
[illegible] linea [illegible] graduum. Cum
[illegible] minuta [illegible] ad
minuta [illegible]
[illegible] Et similiter [illegible]
[illegible] planetarum [illegible] frac
[illegible]
[illegible] ad [illegible]
[illegible] et [illegible] ad
[illegible] minuta graduum
[illegible]
[illegible] Creatus
ad istius tabule sunt ut cognita
[illegible] equalibus [illegible]
[illegible] que [illegible]
[illegible] vel [illegible]
[illegible] et [illegible]
[illegible] tabulas [illegible]
[illegible] minuta graduum. Sequitur [illegible]

Minuta graduum [illegible]
ad [illegible] minuta [illegible]
[illegible] et [illegible]
precedentis capituli. Cum [illegible]
[illegible] in linea [illegible] in
tabula que intitulatur tabula

ad [illegible] ascendens
[illegible] quod in [illegible]
[illegible] linea [illegible]
[illegible] linea [illegible]. Cum
[illegible] monstrat et [illegible]
[illegible] est. Deinde [illegible]
graduum in linea [illegible] tabu-
larum [illegible] in [illegible]
[illegible] linea [illegible]
[illegible] est [illegible] aliis
[illegible]. Deinde
[illegible] graduum [illegible]
et illud quod in [illegible]
linea [illegible]
aliis [illegible]
[illegible]
[illegible]
[illegible]. Quo facto ad [illegible] ad
[illegible] et in [illegible] que
[illegible] et [illegible] tabule
sunt ut cognita aliqua [illegible]
vel eclipsis et hoc per tabulas
Alphonsi in quibus [illegible]
graduum [illegible] dictum
est [illegible]
[illegible] graduum [illegible]
[illegible] equalia et [illegible] illud per
[illegible] que [illegible]
[illegible] passiones
[illegible] equalibus [illegible]

Quod intelligendum est per hoc
[illegible] ad [illegible]
[illegible] tabulas [illegible]
tabulas [illegible] quod [illegible]
[illegible] et [illegible]
[illegible] sunt ille
[illegible] in [illegible] est
[illegible] quod in tabula [illegible]
[illegible] in [illegible] est
[illegible] 38 [illegible] 21 minuta [illegible]
est [illegible] in

... in epiciclo computatum ab
auge vbi fuit medius mo-
tus. Volo scire quid in medio
vero eius [illegible] [illegible] in
prima diccione quod idem est et
integre [illegible] mobilibus mediis
[illegible] vel aliarum [illegible] argumen-
tis loquor in epiciclo. Est dis-
tantia centri planete ab au-
ge media epicicli in prima dic-
cione cuius est medius. Et in
tabula radicum argumenti lune
[illegible] in circuitu [illegible] est 3
signa 14 gradus [illegible] hoc est dicitur in
prima diccione ut dixi distancia
centri lune ab auge media epi-
cicli sunt tanta [illegible] medius
motus computatur ab auge media
Argumentum [illegible] media computatur
ab auge media in epiciclo [illegible]

Revolucionem annorum mundi
aut nativitatis alicuius vel
[illegible] [illegible] primum
in horis et minutis horarum
per tabulam [illegible] [illegible] inve-
ne. Scias quod revolucio anni est
revolucio solis ab eodem puncto
ad eundem punctum vel reditus
solis in eundem punctum in quo
fuit [illegible] [illegible] [illegible]. Quando
quod revolucio annorum mundi est
introitus solis in primum minutum
arietis. Sed revolucio alicuius
nativitatis est reditus solis in eundem
punctum zodiaci in quo fuit hora na-
tivitatis. Revolucio ~~[illegible]~~ an-
norum alicuius [illegible] [illegible]
primum vel alicuius ville castri vel

edificii est revolucio solis ad [illegible]
ad eundem punctum zodiaci vel locum in
quo fuit in prima [illegible] [illegible]
[illegible] ponebatur primus lapis. Unde
volens invenire revolucionem annorum
mundi habeatis primum introitum solis in
arietem bene [illegible] [illegible] alio
anno tibi noto [illegible] [illegible] annorum
[illegible] [illegible] [illegible] quanto est
[illegible] [illegible] tempus [illegible]
[illegible] habebis [illegible]. Unde
revolucionem annorum mundi vel alicuius
volens invenire. Unde quod ali-
fuerunt [illegible] [illegible] [illegible]
anno [illegible] revolucionem [illegible] volens
scire [illegible] annorum [illegible] inter
tabulam [illegible] tabula
revolucionis annorum mundi in
[illegible] [illegible]. Et in horis et
minutis et [illegible] que in directo
invenies [illegible] [illegible] [illegible]
[illegible] que habebis [illegible] [illegible]
Et [illegible] [illegible] horarum [illegible]
[illegible] plures hore quam 24
[illegible] [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
tempus [illegible] solis [illegible]
[illegible] [illegible] horarum [illegible]. Et [illegible]
in qua [illegible] fuit [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] in
[illegible]. Revolucionem [illegible] annorum
[illegible] vel alicuius [illegible] [illegible]
primum vel [illegible] in horis [illegible]
[illegible] [illegible]. [illegible] [illegible] horarum
[illegible] vel [illegible] alicuius [illegible] [illegible]
primum vel [illegible]. [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] est [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
tabulam [illegible] [illegible] [illegible] [illegible]

plus predictum. Et cum dicitur tamen est dicendum superflue quia si fuerit ... superflue et tamen ... superflui ... illa erit in ... precedentis pro ... Sequitur aliud text

Radicationem annorum Christi ad equationem argumentorum in ... Dicit quod ... [illegible] aliud est ... equationem argumentorum ... illud quod est in ... [illegible] ... fuit completa. Et ... dico quod illa tabula debet intelligi ... equationem ... [illegible] ... Et ... esset ... [illegible] ... tabula revolutionum annorum ... [illegible] ... Et ... equationem ... [illegible] ... in equatoris ... [illegible] ... Et illud ... Et cum ... equationem argumentorum ... [illegible]

in tabula que intitulatur tabula revolutionum argumentorum annorum etc. Et ... equationem terminorum et annorum ... que in directo ... addita vel subtracta ... [illegible] ... Et si post additionem provenerint plures gradus quam 360 remove 360 et reliqua summa. Et hec est ... equationem que est in certa ... [illegible] ... 30 ... in tabulis ... [illegible] ... Et ... equationem ... in tabula ... [illegible] ... Sequitur aliud

M ... et ... [illegible] ... argumentorum ... [illegible] ... Et ... in tabulis ... [illegible]

habueris horas et minuta horarum ¶ Quo facto scribe primo medium illius motus quem scire desideras ad principium illius anni per quam operaris ¶ Verbi gratia si queris medium motum solis scribe medium motum solis et si operaris per radices christi tunc scribe medium incarnacionis christi ¶ Si vero operari volueris ad alios annos scribe medium eorum [illegible] ¶ Quia index est scripta in tabula ut in alia materia ¶ Intra in tabulam illius motus quem queris primo cum annis [illegible] et inveneris in linea [illegible] [illegible] [illegible] que in tabula [illegible] sunt [illegible] scripti gradus ¶ Deinde minuta et partes minutorum [illegible] scribe [illegible] est [illegible] [illegible] qualibet [illegible] [illegible] gradus [illegible] minuta [illegible] ¶ Deinde intra cum annis [illegible] in eandem tabulam [illegible] in linea que in tabula [illegible] sunt [illegible] [illegible] scribe ea [illegible] qualibet [illegible] ¶ Deinde intra cum [illegible] et [illegible] in linea que intitulatur [illegible] sunt [illegible] scribe ea [illegible] ¶ Deinde intra cum [illegible] et [illegible] invenies in linea que intitulatur [illegible] [illegible] gradus et partes [illegible] scribe ea [illegible] ¶ Quo facto si habes minuta [illegible] intra cum [illegible] in tabulam eandem [illegible] in linea [illegible]

sunt gradus deinde minuta et partes [illegible] intra cum [illegible] si habes in eandem tabulam [illegible] in linea [illegible] sunt minuta et partes scribe [illegible] ad alias [illegible] [illegible] et [illegible] plures [illegible] ¶ [illegible] ut sunt [illegible] [illegible] gradus [illegible] [illegible] tabule ¶ Quo facto [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] gradus [illegible] [illegible] in loco [illegible] in [illegible] [illegible] ¶ [illegible] [illegible] [illegible] in [illegible] tabulis [illegible] [illegible] [illegible] [illegible] [illegible] ¶ [illegible] [illegible] ¶ [illegible] [illegible] [illegible] ¶ [illegible] [illegible] plura [illegible] [illegible] [illegible] partes [illegible] [illegible] [illegible] in [illegible] ¶ [illegible] [illegible] [illegible] partes in [illegible] tabulis sunt partes ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motus [illegible] ¶ [illegible] [illegible] [illegible] [illegible] medios motus [illegible] [illegible] in [illegible] ¶ [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quando [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ¶ [illegible] [illegible] [illegible]

motus alterati videlicet neque ob
radios conmiscuerunt sunt una
vice coniunctionum tabule quam dum in
una quota quam pars in prima
cum quere annos me-
dios motus scilicet unicuique argumenti
et centri in una tabula et
tamen pro media ... et est
magna alteratio ... ...
... ... in ...
... ...
2us diversitas si forte habebis unita
2a diversitas Septimus canon

Tempus coniunctionis me-
die et oppositionis me-
die et quadrature me-
die solis et lune per tabulas
ad hoc factas invenire. Reducto toto
tempore proposito ad ... in qua
... coniunctionem ... ...
2 oppositionem ... 2 quadraturam
mediam ... 4 3 2 1 ... dictas
... datam. Quo facto ...
mediam medie elongationis
solis et lune ... coniunctionem
... Quo facto ...
cum ... in tabulam elongationis
medie lune a sole ...
et ... apariendo
... est in medijs ta-
bulis. Et post quam ...
... et ... addendo
Si provenit ... ...
in eodem tempore est media
coniunctio illa ... ...
Si vero provenit ... ...
in eodem tempore est media oppositio
Si vero provenit 3o signo et

unum signum in eodem tempore est quadratura
media. Et vocatur media
coniunctio quia luminaria
... sunt in eodem loco zodiaci.
Oppositio vero apparens dicitur quia
sunt in locis oppositis. Quadratura
vero media quia distant per quartam
partem circuli ... ...
... et 3a ... ... 3a ...
... est. Si vero provenerit
... ... 3a ... ...
... ...
... ...
illud quod provenit de ... ...
et ... ... Si autem volueris
oppositionem ... illud quod pro-
venit de ... ... et
... ... Si vero quadraturam
mediam ... illud quod provenit
de uno ... et 3o ... re-
... ... Quo facto quere
illud ... in tabula medie
elongationis lune a sole ...
~~... ... ...~~
~~... ... ...~~
~~... ... ...~~
~~... ... ...~~
~~... ... ...~~
~~... ... ...~~
~~... ... ...~~ Si fuerint
... ... in prima
... ... Et ...
... ...
... ...
... ...
... ... in
... ... est ...
... ...

illud quod accepisti s. sup(ra) signa tol-
lendo que habes [illegible] equacionibus sig(n)i-
bus et sua residuum cum quo intra
tabulam eandem s(i) sint signa
in residuo queras eas in prima
linea per lineam unam et si eas
reperies in numeris illud quod scriptum
est in linea una sub minuta diei
scribe ea est pro diebus [illegible] s
[illegible] Si est [illegible] non invenis
accipe [illegible] propinquiorem Et si fue-
runt tot signa quod non poterunt
in prima linea inveniri Tunc que-
ras in 2a linea in illa parte ubi
[illegible] sunt in prima linea aut
quere propinquiorem et quod scriptum
est in linea una sub diebus scribe
eas est [illegible] scriptis Illo
facto [illegible] illud quod accepisti
in tabula eadem tuo Et [illegible]
[illegible] quere in tabula tua
Et si in residuo fuerunt minuta
et invenies ea in prima linea
tunc illud quod scriptum est in linea
una sub 2a diei Si est tot
minuta quod in prima linea non pote-
runt inveniri quere ea in
2a linea in illa parte ubi [illegible]
est in prima linea Et illud quod scrip-
tum est in linea una sub minuta
diei et illas [illegible]
[illegible] per tabulam scripta
et isto modo [illegible]
totus [illegible] et est
[illegible] tabula [illegible]
tabula [illegible] p 4 3
2 [illegible] Et [illegible] diei que
inventi sunt coniunctione et opposi-
ti dividere [illegible]
[illegible] et [illegible]

	0 4	6	iiii	2	3	4	7
	29	12	44	3	2	78	71
[illegible] adde	14	18	72	1	31	24	70
	a	9	11	0	47	12	27

[illegible] et [illegible] quod inveniunt
in istis tabulis sunt completa
Illo facto [illegible] minuta diei
et ceteras fracciones [illegible]
invenisti adde [illegible]
[illegible] medium [illegible]
[illegible] et quod [illegible] addicionem
[illegible] tempus medie con-
iunctionis oppositionis vel [illegible]
Si vero [illegible] quam volueris
[illegible] invenire oppo-
sitionem [illegible] apparentem
[illegible] medium [illegible]
[illegible] tempus
[illegible] adde [illegible] tempus
[illegible] si volueris [illegible]
[illegible] apparentem
si volueris [illegible] diei
[illegible] minuta 22 2 3 3a 48 [illegible]
[illegible] [illegible] quam
[illegible] addicionem
[illegible] et [illegible]
[illegible] invenire
Et [illegible] volueris [illegible]
[illegible] hoc modo
[illegible] in [illegible]
[illegible] in
[illegible] 4 3 2 1 [illegible]
[illegible] dicto
[illegible] quod [illegible]
[illegible] et
[illegible] quod [illegible]
[illegible] dicto [illegible]
[illegible] quod
[illegible] ad [illegible]
[illegible] et [illegible]
illius diei Et si volueris in-
venire [illegible] minuta [illegible]
adde [illegible] 29
diei 31 minuta diei 70 2
a 3 3a 4 [illegible] est [illegible]

	d	iiii	2	3	2	
	29	31	70	a	3	ad coniunccionem
adde	14	42	72	3	48	ad opposicionem
	a	22	7a	31	74	ad q[illegible]

quantitate ad aliam et illud [illegible] ad diversis per partes dierum veniet [illegible]
Et si apparentes per tabulas
Eadem per tempus mediis quantitate
temporis [illegible] 13 [illegible] 147
[illegible] 1772 13 3 148 [illegible]
est [illegible] ad apparentem [illegible]
[illegible] ab apparenti [illegible]
Si vero coniunctionis tabulis in
veniet [illegible] per tempus quantitate
a [illegible] 22 [illegible] 17a 2
13 3 144 / et habebis [illegible]
[illegible] Et si [illegible] tabulis
[illegible] per tempus [illegible]
et illas [illegible] poteris scribere in
marginibus tabularum ut pro
proprius possis invenire quod
[illegible] illarum tabularum [illegible]

Verum eclipsis solis in
aliqua quantitate [illegible]
eclipsis lune in aliqua
apparentia sit possibilis [illegible]
poteris invenire Et [illegible]
latitudinis lune ad tempus quantitate
medie per quas possibilis
eclipsis solis Et [illegible] ad tempus eclipsis
per quas possibilis eclipsis lune
[illegible] latitudinis lune
fuit [illegible] in [illegible] et [illegible]
[illegible] 48
[illegible] 48
[illegible] eclipsis [illegible]
[illegible] in [illegible] possibilis
[illegible] eclipsis [illegible]

Modum coniungendi tabulas motuum [illegible]
et ipsas [illegible]
[illegible] in [illegible]

dierum [illegible] angul[illegible] [illegible]
[illegible] motus [illegible] dierum illius
[illegible] tabulas coniunge et
est motus [illegible] dierum illud quod
[illegible] linea tabule
[illegible] dubitatis [illegible]
[illegible] sit [illegible]
[illegible] in tabula [illegible]
in [illegible] illarum [illegible]
[illegible] dubitatis et [illegible]
quo facto accipe motum [illegible]
dierum [illegible] linearum tabule
[illegible] et illud quod [illegible]
est [illegible] linee [illegible] qua
dubitatis Et [illegible] quod [illegible]
[illegible] linea [illegible]
[illegible] linee Accipe
[illegible] lineas in tabula
[illegible] accipe
in [illegible]
[illegible] tabule [illegible]
[illegible] motum [illegible]
[illegible] linee tabule Si
[illegible] coniunguntur [illegible] Si [illegible]
accipe [illegible] in alia parte
tabule [illegible] lineas [illegible]
[illegible] et [illegible]
[illegible] motu [illegible]
est [illegible] quod tabula in
[illegible] sit [illegible] Et [illegible]
[illegible] poteris [illegible]
[illegible] totam tabulam coniunge
Et poteris [illegible] totam [illegible]
[illegible] tota sit [illegible]
[illegible] motum [illegible] dierum [illegible]
dupla et duplatur erit motus
[illegible] Et [illegible] ad
[illegible] motum [illegible] dierum [illegible]
motus [illegible]
[illegible] linee [illegible] est

[illegible] illud [illegible] eclipsis sit possibilis [illegible] Si [illegible]
[illegible] eclipsis sit possibilis [illegible] in [illegible] tabula [illegible]
[illegible] 3 [illegible]
[illegible] 28 27 [illegible]
[illegible] 4 3 2 [illegible]
[illegible] 87 1 4 27 [illegible]
[illegible] 28 36 [illegible] 19 a 4 41 [illegible]
[illegible] 7 2 24 28 36 [illegible]
2 24 28 77 a 4 41 [illegible] 19 a 4 41 [illegible] 376 [illegible] tabulam [illegible]
[illegible]
[illegible]

Verum locum augis cuius
libet planete per tabu-
las invenire. Cum
per motum augis et stel-
larum fixarum non accepta ali-
qua radice [illegible] modum dictum in me-
diis motibus et [illegible] Ex-
empli gratia motum accessus et recessus
octave spere [illegible] cui adde radicem
motus octave spere. [illegible] in recto
si fuerint ibi signa repone ea
in signis. Et si aliquos gradus
habueris tunc adde eos ad gradus
motus octave spere repositos.
Quo facto intra tabulam equa-
tionis motus accessus et recessus
octave spere cum gradibus provenientibus in
linea numeri quos ibi invenies
si sint pauciores 90 et in linea
numeri descendentis usque ad 90. Si
vero fuerint plures gradibus quam
90 computa ordine [illegible]
[illegible] ita quod si [illegible] ha-
bueris 91 accipe 89. Et
si 92 accipe 88 et si 93 acci-
pe 87 et procedendo usque ad
principium tabule et erit 180 gradus
et ibi equatio erit nulla. Si
vero fuerint ultra 180 gradus
tunc incipe a principio tabule
ita quod recto octuagesimo [illegible]
[illegible] unum et 181 sit duo et
182 sit 3 donec venias ad
90 et tunc erit 270 gradus.
Si vero fuerint plures quam 270
gradus [illegible]
[illegible] quam 271 accipias
89 et pro 272 accipias 88 et
sic usque ad principium tabule et tunc
erit 360 gradus et [illegible]
erit nulla. Et [illegible]

[illegible] in [illegible] in
[illegible] et erit talis
[illegible] 90 gradus.
Quod igitur cum gradu in linea
numeri quos [illegible] quod
sit in directo [illegible] numeri
[illegible] illud [illegible] est in duobus
locis. Quo facto si habes
aliqua minuta ultra gradus in
[illegible] gradum [illegible] fuit
[illegible]
[illegible] Si minuta
[illegible] fuerint
ultra [illegible] gradus aliqua minuta
[illegible]
[illegible] quod sit in directo
[illegible] illud est.
Quo facto vide utrum prima
equatio sit illa quam primo ac-
cepisti [illegible] et illud quod
[illegible]
[illegible] equationes. Deinde
accipe [illegible]
[illegible] que fuerint ultra
gradus [illegible]
[illegible] Si in [illegible]
[illegible] fuerint [illegible]
[illegible]
[illegible] et [illegible]
[illegible]
Si [illegible] est
illud [illegible]
[illegible] erit [illegible]
[illegible] Quo facto
[illegible]
primo accepte [illegible] est
[illegible] est

per additionem vel subtractionem proveniet
quod per additionem vel subtractionem
[illegible] [illegible] motus [illegible]
Sphera. Unus sicut addere illum
ad motum augium 8 stellarum
fixarum quod fieri [illegible]. Cognos-
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] paucioribus 180 [illegible]
[illegible] si fuerint plures. Et aliud
quod proveniet erit [illegible] [illegible]
[illegible] [illegible]. ~~Et aliud quod per~~
~~subtractionem vel additionem proveniet~~
addere medii [illegible] augis
[illegible] [illegible] [illegible] loco
[illegible]. Nota quod illa [illegible] est
[illegible] [illegible] planetarum
[illegible] quod [illegible] planete
verum motum poterit invenire
preter [illegible] augis [illegible] in luna
[illegible] [illegible] [illegible] [illegible] apparentem.

Verum locum solis per tabu-
las invenire. Quere
[illegible] medium motum
solis [illegible] [illegible] [illegible]
augem solis [illegible] [illegible]
quam subtrahe a medio motu
Solis si poteris et si medius
motus sit minor [illegible]. Si autem
non poteris subtrahe a medio
motu [illegible] [illegible] [illegible]
unam revolutionem et subtrahe [illegible]
et post subtrahe augem et
quod post subtractionem proveniet erit
argumentum Solis. Et nota [illegible]
[illegible] [illegible] et [illegible] [illegible]
quotiescumque [illegible] in [illegible]
[illegible] subtrahe [illegible] [illegible] a
[illegible] [illegible] [illegible]
[illegible] subtrahe [illegible] [illegible] [illegible]
[illegible] [illegible] subtractio sit
minor [illegible] minor illo qui

debet subtrahi. Et [illegible] [illegible] [illegible]
[illegible] subtractio [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] una revolutio
et post sit subtractio et hoc
diligenter nota quod [illegible] [illegible]
tibi in opere. Habito igitur argumento
Solis [illegible] [illegible] in tabulas
equationis Solis et [illegible] [illegible]
[illegible] in lineis [illegible]. Et si [illegible]
[illegible] argumenti [illegible] [illegible]
[illegible] ibi [illegible] argumento [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
invenies in directo equationem
Solis quam equationem subtrahe
a medio motu Solis. Si [illegible]
argumentum [illegible] quod in [illegible]
equationem [illegible] [illegible] [illegible] [illegible]
vel adde [illegible] equationem [illegible] me-
dio motu si [illegible] solis fuerit plus
[illegible] [illegible]. Et quod post additionem
vel subtractionem proveniet erit
verum locum solis in octava (nona)
Sphera. [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] posset [illegible]
modo [illegible] et posset [illegible]
[illegible] [illegible] in [illegible] solis [illegible] [illegible]
[illegible] [illegible] aliqua [illegible]
[illegible] [illegible] [illegible] 30 posset
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] et si [illegible] [illegible]
[illegible] 30 [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] equationem [illegible] oppor-
tet [illegible] [illegible] [illegible] [illegible]
quod [illegible] [illegible] [illegible] ad
[illegible] in quo [illegible] [illegible] et
[illegible] posset [illegible] in aliis planetis

Sed quia hoc non sufficit volenti perfecte
operari ideo docemus de complemento
tam doctrinam. Sit ita quod cum argu-
mento ut dixi [illegible] [illegible] [illegible]
secundum in [illegible] [illegible] et unde
quod sit in [illegible] denominatione
[illegible] [illegible] [illegible] et [illegible] in
[illegible] [illegible] est in duobus
locis. Deinde si in argumento
ult[imo] [illegible] fuerint aliqua unitatis
[illegible] [illegible] adde argumento unum secundum et
[illegible] illo quod provenit [illegible] [illegible]
et unde [illegible] in [illegible] [illegible]
[illegible] [illegible] est [illegible] [illegible]
Unus fructus [illegible] [illegible] [illegible]
a [illegible] [illegible] remanet est [illegible]
[illegible] [illegible] [illegible] est [illegible]
que [illegible] [illegible] secundum in illo
loco tabule. Quia [illegible] accipe
[illegible] [illegible] qualibet [illegible] [illegible]
in argumento [illegible] secundum. [illegible] [illegible] in
[illegible] [illegible] accipe [illegible] [illegible]
in [illegible] [illegible] que fuerint
ult[imo] [illegible] in [illegible] ad [illegible] quod
[illegible] [illegible] adde [illegible] [illegible]
[illegible] fuerit [illegible] [illegible] [illegible] [illegible]
[illegible] si [illegible] fuerit [illegible] et quod p[illegible]
[illegible] [illegible] [illegible] provenit
[illegible] [illegible] [illegible] plus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] fuit
[illegible] [illegible] [illegible] [illegible] [illegible] fuit
plus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] provenit et
[illegible] loco [illegible] [illegible] nona
[illegible] [illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] fuerunt [illegible] [illegible] [illegible]
plures ult[imo] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] secundum [illegible] [illegible] [illegible]
[illegible] est [illegible] [illegible] [illegible]

Et quia in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
in [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ut [illegible]
in [illegible] Sed in [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
in [illegible] [illegible] [illegible] fuerint
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] provenit
[illegible] [illegible] [illegible] adde [illegible] que habes
et illud quod provenit [illegible] et [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] que [illegible] [illegible] ult[imo] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] Si at
non [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] Unus fructus [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
quod provenit [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] provenit [illegible] [illegible] [illegible]
[illegible] 4 Deinde [illegible]
[illegible] facta [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] in [illegible] [illegible] [illegible]
[illegible] [illegible] 4 [illegible] [illegible]
[illegible] 3 in [illegible] [illegible] et
quod remanet [illegible] 4 Et
si [illegible] [illegible] fuerit plura [illegible]
[illegible] [illegible] [illegible] [illegible] provenit
[illegible] et quod remanet [illegible]

3ª et si 2ª fuerit plura quam 60 minue de
60 et quod remanserit minuta et quod rema-
net minuta 2ª. Secundo facto
habebis partem proporcionalem in parte
secundi. Tercio partem proporcionalem
adde eidem quantum sunt si 2ª fuerit
addenda vel subtrahe eandem si 2ª
fuerit subtrahenda. Deinde si 2ª et 3ª
fuerint equales tunc uno
modo quod non per proporcionem sed prima equacio
accipiatur sicut in primo et adde
vel subtrahe sicut apparet. Quando
plures reuoluciones sicut in aliquo argumento
ad quod intrare debet habueris
plures fracciones et tunc in
signis et in gradibus. Tunc per
fracciones reductis ad unum
genus et producto multiplicatum per partem
et reductam ad idem genus
per equacionem differencie que est in dif-
ferencia primi gradus tabule ... in
signis continetur ...
... et habebis
equacionem quesitam. Si vero intrabis
cum 2 signis et cum 19 gradibus
vel cum 2 signis et cum 19
gradibus et habueris adhuc
aliquas fracciones ...
proporcionem in tabula ad 60 in
reliquum partem proporcionalem. Tunc
equacionem in directo 1 signorum et
14 graduum vel duorum signorum et
19 graduum in tabula multiplica
per fracciones cum aliis adhuc
... et producto divide
per 60 et habebis partem proporcionalem
quam ... subtrahas aliquid
in directo 2 signorum et 19 graduum

et duorum signorum et 19 graduum et
habebis equacionem quesitam quam
adde vel subtrahas sicut oportet
Certa quando ... cum dupla
elongacione sicut apparet ... debet
intelligi quando partem proporcionalem
sicut in ... fracciones ult-
ra ... argumento centri.

Verum locum lune per
tabulas invenire.

Quere primo medium
motum lune et ipsius tempora. Deinde
quere medium motum Solis et
subtrahe ipsum a medio motu
lune et quod remanet dupla
et duplatum erit centrum medium
lune. Dicitur enim in tabula
theorica
sic duplata distancia inter
Solem et lunam habebis distancia
inter augem excentrici lune et
medium motum lune. Et hec
distancia vocatur centrum me-
dium lune. Quia igitur cum ipso
medio motu prius quere
argumentum medium lune et ipsum
...Deinde ... equacionem
cum medio motu lune centro
... medio. Et intra primo
cum centro medio lune in tabu-
lis equacionum lune et hec equacio
centri cum dupla elongacione.
Si fuerit aliqua addenda
... in centro ... per argumentum
et hec partem proporcionalem pro
dupla in omnibus predictis. Tunc
... cum centro
medio minuta proporcionalia que sunt
in directo sicut cum dupla elongacione

et ipsa sua. Post hoc duobus [illegible]
per equationem centri et minutis
proportionalibus equationis capitis equationum
centri et adde eam cum argumento
medio prius si vero centrum
medium fuerit minus 6 signis.
Si vero centrum medium fuerit plus
6 signis subtrahe eandem
equationem ab argumento medio. Et
quod post subtractionem vel additionem pro-
venit erit argumentum lune equatum
sive verum quod est distancia corporis
lune ab auge media epicicli.
Equationem vero minutorum proportionalium sua
que post hoc in ~~[illegible]~~ diversitatis
Cum qua sic ut cum argumento vero
equato in communibus tabulis lune
per equationem. Intrando enim cum
in lineis numeri et accipe equationem
argumenti in directo [illegible]. Et
cum sua et [illegible] equationem [illegible]
Et [illegible] post [illegible] [illegible] [illegible]
dicto [illegible] in argumento [illegible]
ultra [illegible] [illegible] fuerint minuta
deinde subtrahe [illegible] a maiori et
remanet diversitas diametri circuli.
Deinde accipe partem proportionalem
[illegible] minutorum que fuit ultra
[illegible] ad 60 quod adde equationi
prius. Si vero fuit [illegible] vel subtrahe
si [illegible] fuit [illegible]. Et quod post subtractionem
vel additionem provenerit erit
equatio argumenti prius [illegible]
per [illegible] [illegible] [illegible] vel ultra
[illegible] per [illegible] [illegible] proportionem
Aut [illegible] argumento equato
[illegible] diametri circuli

[illegible] et [illegible] cum duplici [illegible]
[illegible] Post hoc accipe de illa [illegible]
diversitatis diametri circuli in [illegible]
partem proportionalem [illegible] minutorum
proportionalium prius [illegible] adde
per [illegible] equationem diversitatis
diametri [illegible] et [illegible]
[illegible] minuta proportionalia prius [illegible]
minutorum proportionalium. [illegible] ad
[illegible] [illegible]. [illegible] [illegible] illa
[illegible] [illegible] [illegible] per
[illegible] per [illegible] [illegible] per 60 et
habebis partem proportionalem. [illegible] partem
proportionalem adde equationi argumenti
prius [illegible] et quod post ad-
ditionem provenerit erit [illegible] vel
[illegible] [illegible]. [illegible] equationem
[illegible] [illegible] adde [illegible]
[illegible] medio lune si argumentum equatum
fuerit plus 6 signis vel subtrahe
si fuerit minus. [illegible]
[illegible]. Si luna fuerit in medio
[illegible] epicicli que [illegible]
[illegible] [illegible] [illegible] [illegible]
est medius motus [illegible] in
luna. [illegible] [illegible] equato argumenti
est [illegible] in alia [illegible]
[illegible] [illegible] [illegible]. Equationem
[illegible] est addenda. [illegible] [illegible]
vel subtrahe [illegible] et [illegible] post
additionem vel subtractionem provenerit
erit verus locus lune in octa-
va spera. [illegible]

Verum locum capitis draconis [illegible] [illegible] invenire [illegible]
[illegible] est quod [illegible] motum
[illegible] [illegible] lune [illegible]
eclipticam que [illegible] [illegible]

Caput et cauda draconis non sunt
per motus planetarum sed sunt ad
ipsorum apparitiones et ideo dicuntur in
theorica. Et caput generaliter tamen
in medio motu sunt. Similiter medio
quando in tabulis sumitur reddit in signa
recto. Item sic subtracto medio
motu capitis draconis a 12 signis
remanet verus locus. Capitis
draconis computatio cum successione
signorum est. Cum igitur volueris in-
venire verum locum capitis draconis
quere eius medium motum in sua
tabula que sic intitulatur et a 12 signis
ipsum subtrahas et quod remanserit
erit verus locus. Capitis draconis
computatio ab oriente cum successione
signorum in 3o. Habito igitur vero
loco lune per canonem precedentem
habito etiam vero loco capitis draconis
per istum canonem operaberis cum
argumento latitudinis lune inveniendo.
Sit modo subtrahe verum locum capitis
draconis a vero loco lune et
quod remanet erit argumentum latitudinis
lune verum. Et recipe verum argumentum
latitudinis lune distantiam corporis
lune a capite draconis. Et
recipe semper argumentum latitudinis quia
mediante illo in tabulis invenitur
~~[illegible]~~ latitudo lune ab ecliptica

Verum locum Saturni
Jovis et Martis in-
venire. Quere primo
medium motum illius cuius verum
motum queris et ipsum signa [illegible]
[illegible] augem ipsius [illegible]
in precedentibus traditum. Quorum
Augem subtrahe a medio motu pla-
nete et quod remanserit erit centrum
medium planete et [illegible]
medium motum planete. Deinde
quere medium motum Solis et
subtrahe medium motum planete
ipsius similiter a medio motu
Solis et quod remanserit erit argumentum
medium. [illegible]
[illegible] habebis [illegible] medium
motum planete. Centrum medium
et argumentum medium. [illegible]
quod subtrahendo medius motus
cuiuslibet trium superiorum a medio
motu solis [illegible] et habeatur
argumentum medium [illegible] trium superiorum
non est nisi quia media non
sole [illegible] est in auge media sui
epicicli et in tanto tempore quibus
perficit suum epiciclum. Argumento sol
[illegible] ad primam quantitatem medium.
Quare cum ut tamen planeta distat
ab auge media epicicli quanto
distat medius motus Solis a me-
dio motu cuiuslibet trium. Distantia
est medii motus solis a medio
motu cuiuslibet ~~[illegible]~~ horum ha-
betur subtrahendo medium motum
ipsius planete a medio motu
Solis. Quod etiam habetur quia distantia
corporis planete ab auge media
epicicli non est nisi [illegible]
[illegible] est tamen [illegible]
[illegible] tabulis habebis
[illegible] medio motu pla-
nete. Centrum medium. Et argumentum
medium. [illegible] centrum medium
in tabulis [illegible] cum
motu [illegible] et [illegible] centri

cum duplicata intrante sed eorum pro-
dixi in racione solis. Equacio-
nem centri suam ad partem quam
posita in degradibus ea et scribe
super eam et addes sed centrum
medium vero quo invenisti
equacionem si fuerit plus sex
signis ad centrum medium quod est ad
ad vel scribe super eam et mi-
nue sed centrum medium fuerit
minus sex signis ad centrum medium
quod est postea. Equacio scripta ex
sinistra sed debet addi addes
eam cum centro medio et postea
eam ab argumento medio vel si debet
postea postea cum centro
medio et addes eam cum argumento
medio et remanebit utrumque
quod est equatum sed argumentum verum.
Quo facto intra cum centro
vero cum equato in eisdem
tabulis in linea numeri et
accipe minuta proporcionalia in direc-
to scripta. Et intra cum dupli-
cata intrante sed eorum tempora sua
et propria tabula sed super-
ius scripta longior vel propior et
super minuta proporcionalia equata et
sinistra eorum tabulas scribe ea
posita in degradibus. Quibus factis
vel scribe cum argumento vero cum
equato in eisdem tabulis et in
tam cum duplicata intrante sed eorum et
accipe equacionem argumenti et propria sua
et nota equacionem argumenti prima examinata.
Deinde eadem accipe cum vero

argumento duplicati dyametri in alia
longitudinem et intra cum dupli-
cata intrante sed eorum et accipias dif-
ferenciam dyametri in longitudine
longiori sed super minuta proporcionalia
sed scripta longior vel in
propinquiori sed super minuta proporcionalia
sed scripta propior. Deinde differen-
ciam dyametri accipe partem proporcionalem
2m proporcionum minutorum proporcionalium
quam invenisti adde ad sed scripta
in quacumque linea sed lunam
duplicati dyametri equatam
et per ducturam ad eundem gradum
sed eorum sed minuta proporcionalia $\frac{1}{2}$ re-
ducta ad eundem gradum sed eorum
minuta proporcionalia et una
post cum denominacione sexta
et hoc erit pro ea et habebis
partem proporcionalem. Qua parte
proporcionali addes equacionem ar-
gumenti examinate sed duplicatis
dyametri fuerit accepta in
longitudine propinquiori vel eandem
partem proporcionalem postea ab
equacione prima examinata sed
duplicatis dyametri fuerit ac-
cepta in longitudine longiori. Et
quod post subtractionem vel addicionem
provenit erit argumenti equacio 2a ex-
aminata. Super quam scribe a.
Si argumentum verum fuerit minus sex
signis sed vel scribe super eam
sed si argumentum verum fuerit plus
sex signis. Quo facto vi-
de equacionem centri primo ex-
aminatam et 2am equacionem argumenti
ultimo examinatam. Et sed super
utramque fuerit scripta a vel
[illegible] et totum adde ad mi-
dium medium planete. Si autem

superiorum sunt supposita equanti
[illegible] [illegible] et [illegible] [illegible] a
medio motu planete. Sed non semper
[illegible] sunt supposita et semper aliquo
[illegible] [illegible] a [illegible] [illegible]
[illegible] sunt supposita ad [illegible]
conveniunt per subtractionem ad
medium motum planete vel semper
[illegible] sunt supposita [illegible]
illud conveniunt a medio
motu planete et quod per [illegible]
[illegible] vel subtractionem conveniunt
erit verus locus vel motus
illius de quo agitur etc. in
octava spera. [illegible]

Tertium locum Veneris
et Mercurii invenire
[illegible] quod idem est medius
[illegible] in istis duobus et
tribus superioribus. Sciendum
quod medius motus illorum scilicet Veneris et Mercurii
est medius motus Solis. Et
augis Veneris et augis Solis
sunt eedem et in eodem loco
et est [illegible] in istis duobus
et tribus superioribus in [illegible]
argumentum et in tribus superioribus
inveniuntur argumenta per subtractionem
mediorum motuum ipsorum a
medio motu Solis. Sed in
istis duobus [illegible] argumenta
in tabulis. Cum igitur [illegible]
volueris [illegible] motum aliquorum
illorum duorum. Tunc medium
motum Solis qui est idem
cum medio motu [illegible]
[illegible] dictum est et [illegible]
et [illegible] per [illegible] augis istius
[illegible] [illegible] quod a medio
motu [illegible] Solis quod
idem est et [illegible] [illegible]

	[illegible]	[illegible]		[illegible]	[illegible]
Aries	6	0	Libra	3	0
Taurus	0	30	Scorpio	3	30
Gemini	1	0	Sagittarius	4	0
Cancer	1	30	Capricornus	4	30
Leo	2	0	Aquarius	7	0
Virgo	2	30	Pisces	7	30

centri medium [illegible] [illegible] [illegible]
medio motu, [illegible] [illegible] medio
argumento [illegible] [illegible] [illegible] alia
[illegible] [illegible] [illegible] et [illegible]
medio motu planete [illegible]
medio [illegible] [illegible] [illegible]
est [illegible] [illegible] [illegible]
superioribus et illa est [illegible]
[illegible] [illegible] [illegible] [illegible]
in [illegible] [illegible] [illegible] proportionem
[illegible] quae variantur in longitudine
propiori [illegible] illa [illegible] [illegible]
proportionaliter [illegible] [illegible] duplex [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] supposita [illegible]
longitudine longiori vel propiori
[illegible] [illegible] motibus [illegible]

Introitum Solis in arietem
vel in quodlibet signum in-
venire. Nunc vero
locum Solis ad ipsius
principium [illegible] [illegible]
quo [illegible] quod sol parum
distat ab ariete [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] locum Solis [illegible] distan-
tiam eius [illegible] [illegible] [illegible] ab ariete
[illegible] [illegible] motus solis a [illegible]
[illegible] [illegible] ab ariete. [illegible]
[illegible] [illegible] [illegible] [illegible] (secundum medium motum et per tabulas)
[illegible] [illegible] [illegible] Solis
in arietem [illegible] [illegible]
[illegible] solis [illegible] aliud
[illegible] [illegible] [illegible] planete
in [illegible] [illegible] [illegible] est
[illegible] et [illegible]. [illegible]
distantia vera loci solis ab
ariete [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] solis
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ab ariete [illegible]
[illegible] [illegible] in [illegible] solis [illegible]
[illegible] [illegible] [illegible] [illegible] solis
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]

et 3 reducit totum ad 3m. quod distanciam reductam secundum [illegible] proportionem quam [illegible] [illegible] per unum [illegible]. [illegible] dicitur per partes temporis quo prius [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] motu [illegible] [illegible] et quod [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] uno [illegible] dicitur [illegible] [illegible] in una [illegible] dicitur [illegible] ad [illegible] [illegible] [illegible] plus [illegible] [illegible] ad quod [illegible] distanciam [illegible] [illegible] [illegible] distanciam ad 3 [illegible] [illegible] [illegible] [illegible] [illegible] distanciam [illegible] [illegible] [illegible] in uno [illegible] dicitur [illegible]

Et si [illegible] aliquid [illegible] distanciam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] distanciam [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] sed [illegible] in
uno quoque. Et quia unus
[illegible] sed quod ille de quo remanet
[illegible] per [illegible] ultimam [illegible]
temporis quod dicit precedens quod sunt
sed principio [illegible] dicit [illegible]
sufficiat. Unus sit tempus
unum in medio. Et dicitur tempus precise
in medio sive per partem operationum.
Sol non movetur ad [illegible] ad
Almanach sed solum tempus
unum in medio tempore precise in
medio sive per partem operationum. Sed
[illegible] primum directe et quod
precedit et in tractatibus [illegible]
in Almanach deducitur [illegible]
[illegible] sed in illo tempore debet
[illegible] loca planetarum sicut
in [illegible] tabularum [illegible]
[illegible] in [illegible] sunt ad
[illegible] per [illegible]. Et [illegible]
[illegible] in diversis [illegible]
[illegible] minuta et
2 secunda. Exemplum [illegible]
4 minuta [illegible] in [illegible]
[illegible] 4 2 [illegible]
[illegible] 8 minuta [illegible] 4 8 2
[illegible] quod [illegible] in tempore [illegible] 4
in [illegible] solis in Almanach in
[illegible] et quod precedit erit
tempus [illegible]. Solis in
Almanach deducitur [illegible] et
illo tempore debet quod [illegible]
[illegible] aequationis dierum
[illegible] quod [illegible] in
[illegible]. Et [illegible]
[illegible] solis in [illegible]
[illegible] et
[illegible] et [illegible]
[illegible] volumus [illegible]
[illegible] ab illo [illegible]

vel loco sed et motu solis in
uno anno [illegible]. Exemplum [illegible]
volumus [illegible]
[illegible] in [illegible]
[illegible] solis [illegible] et [illegible]
[illegible] modo. [illegible]
in eodem modo [illegible] in
[illegible] lune et [illegible]
planetarum [illegible]
[illegible] volumus
et valet [illegible]
[illegible] in [illegible] plane-
tarum in [illegible]
[illegible] ut non latent [illegible]
[illegible] vel aliquo [illegible]
[illegible] motu in [illegible] solis
in Almanach vel in [illegible]
[illegible] partes [illegible]
[illegible] finaliter [illegible] in
[illegible] solis [illegible] tabularum in
[illegible] vel [illegible] in
[illegible]

Tempus vero quantitatis
et apparitionis solis
et lune in [illegible]
Et [illegible] medium quantitatis
[illegible] et medium
[illegible]. Unus
[illegible] tempus [illegible]
[illegible] et [illegible]
motu solis [illegible] lune [illegible]
medio motu lune [illegible]
[illegible] motum solis [illegible] et
[illegible] in appositione [illegible] Solis
et medius motus lune et [illegible]
[illegible] solis
vel [illegible] in [illegible] loco in
[illegible] et [illegible] in [illegible]
[illegible] solis [illegible]
[illegible] lune [illegible]

[illegible]

ipsius argumenti Solis, scilicet in digre-
bus eius. Deinde intra cum argumento
medio lune in tabulam
equationis lune. Et quere equationem
argumenti ut possis verum locum lune
invenire ut plus operandus
et est nota plus medius
quod in sole. Et ideo in quantum
ut apparet sensibiliter est verum
locum lune invenire. Quibus
habitis scilicet vero loco Solis et
lune subtrahe minorem a maiori
et quod remanet est longitudo
et dicitur eius longitudo.
Est enim longitudo illius qui
precessit alium in ordine signorum
scilicet quam hec planetarum. Unde luna
est Solis vel luna nodum penitus
est Solem in coniunctione vel
nadir Solis et locum Solis oppo-
situm in oppositione. Vel est luna
vel luna cum pertransivit Solem
in coniunctione vel nadir Solis
in oppositione. Habita longitudine
lune a Sole super eam longitudo
Solis vel longitudo lune per eam
postea ista longitudini adde semper 12am
partem quod facias hoc modo
reducendo ipsam longitudinem ad mi-
nuta de [illegible] et deinde eam
per 12. Et quod provenit deinde per
60 sunt per hunc quod [illegible] et
volebat scias in minutis [illegible]
quod sunt dicta in Canone
Solis et adde illud quod provenit
minutis plus plus diminutis
in longitudine non productis. Vel

aliter per quemlibet. Quando accipe in
minuta et partes minuto in 2 et id
de unoquoque adde plus plus de
(in longitudine non producta)
minuendis. Et istius tria
aggregati accipe medietatem
et eam adde cum argumento
medio lune prius invento per
longitudinem fuit Solis. Vel ab
eo abstrahe per longitudinem fuit
lune. Et quod post additionem vel
subtractionem provenit erit argumentum
lune equatum pro inveniendo
motu lune in una hora
vel uno minuto diei. Si velis
operari per minuta diei sume
ipsum. Et in tabula est quod ista
Tabula vult habere medios
motus in qua facilius in-
venitur motus Solis et lune
in una hora vel in uno
minuto diei. Et licet plures ad
hoc aliter fecerit tamen est veri-
tas quod nadir est illa quod
que continetur in Tabulis
quas magister [illegible] Tabularius
de Lineriis ordinavit. Et
intres in eam cum argumento
Solis et cum argumento lune
eius inventio per longitudinem
ad [illegible]. Intra ergo
cum argumento Solis quod in inventa
hora medie coniunctionis
vel oppositionis in predictis
tabulis que intitulantur
Tabula ad inveniendum
motum Solis et lune in
una hora vel in uno
minuto diei. Et inveniens
sub ducto quanto Sol in-

in una hora vel in uno minuto
diei et intra cum [illegible] in tabula
scilicet cum sua [illegible]. Deinde intra
[illegible] in [illegible] tabu-
larum cum argumento lune [illegible] dupli-
cato [illegible] motu lune
in una hora vel in uno minuto
diei. Et intra cum [illegible] in tabula
scilicet .1. si sunt ibi aliqua minuta
in argumento. Et si in tabula
non in [illegible] [illegible] in
lineis [illegible] intra cum minori
[illegible] motu. Deinde
intra cum [illegible] ad
[illegible] quod illud est augmentum
tabule, et quod [illegible]
[illegible]
[illegible] habes
in canone [illegible] tabule
[illegible] motum solis
in una hora [illegible] lune
[illegible] motu. Solis in una
hora [illegible] lune in una
hora et quod remanet est
superatio [illegible] lune
plus sole in una hora,
[illegible]
[illegible]
[illegible] in [illegible]
[illegible]
in [illegible]
una [illegible]
[illegible] uno [illegible]
[illegible] superationi. Hoc est [illegible]
[illegible]
[illegible] superationi [illegible]
uno .1. 4 [illegible]

[illegible] uno [illegible]. Et hoc [illegible]
lune fuit [illegible] parte [illegible]
[illegible]. Sed [illegible]
[illegible] et [illegible]
vel [illegible] erit
superatio lune [illegible] sua
[illegible]. Primo facto [illegible]
[illegible] lagiminis
solis aut lune [illegible]
[illegible] vel [illegible]
[illegible] superatio [illegible] adiungens
plus [illegible]
[illegible]. Primo facto
[illegible] superatio et
[illegible] minuta
[illegible] minuta [illegible]
[illegible] hore vel
minuta [illegible] et si
aliquid [illegible]
[illegible]
[illegible] superationem [illegible]
[illegible] erit minuta [illegible] sua
[illegible] et
si aliquid [illegible]
[illegible]
[illegible] et [illegible] erit
[illegible]
[illegible] intelligendo
[illegible] et
[illegible]
[illegible]
[illegible] et [illegible]
[illegible]
[illegible] solis
vel [illegible]
[illegible]
erit [illegible]
[illegible]

vel ad apparentiam per oppositum
sunt de natura apparentie //

Et consulo tibi quod non per
contrarius in illa operatione
quia nichil in brevibus par-
tium pro imperfectione modo
brevis tamen in comparatione quarum
in contrarium a longa fuit
valde perfecta. Tunc ergo ad
istud tempus quod enim in compositi-
one longa perfectis et non longa
brevis [illegible] in [illegible]
[illegible] et si in numeris [illegible] in
eius loco per oppositum est de
quantitate vel in loco apparentis
per oppositum est de apparentia sed
[illegible] brevis et [illegible]
perfectis et in apparentia in eadem
longa brevis est per oppositum de
apparentia. Si autem fuit aliqua
[illegible] in [illegible] nisi per
[illegible] sunt dicta [illegible]
[illegible] ut [illegible] longam
[illegible] et longa [illegible]
vel brevis [illegible] perfectam
[illegible] duarum [illegible]
[illegible] in [illegible]
[illegible] modo et [illegible]
[illegible] modo [illegible]
in [illegible] duarum [illegible]
Alia [illegible] brevis [illegible]
[illegible] duarum [illegible]
in [illegible] per oppositum [illegible]
[illegible] modo [illegible]
[illegible] modo brevis in una [illegible]
duarum [illegible] brevis
in una [illegible] duarum et [illegible]
[illegible] per oppositum [illegible]
[illegible]

longarum ad [illegible] plus de
numero et [illegible] longarum
[illegible] sed [illegible]
et [illegible]
Si autem longa [illegible] perfecta
quod non [illegible] [illegible]
[illegible]
[illegible] est [illegible]
[illegible] aliquid [illegible]
[illegible]
quod [illegible] in uno [illegible]
[illegible] de aliis
[illegible] sufficit
[illegible] Ad [illegible]
[illegible] in [illegible]
in [illegible] longa fuit [illegible]
[illegible] fuit brevis [illegible]
[illegible] habuerit
una [illegible]
[illegible] alia [illegible]
[illegible]
[illegible] apparentiam [illegible]
[illegible]
[illegible]
Et [illegible] quarum
vel apparentiam fuit oppositum
de [illegible]
Et [illegible]
[illegible] et [illegible] vel
[illegible]
[illegible] quod [illegible]
[illegible] habuerit [illegible]
[illegible] vel apparentiam
[illegible] oppositum de [illegible]
brevis non [illegible] Et [illegible]
[illegible] qui longa pla-
[illegible] ad habendum [illegible]
[illegible] Et [illegible]

[illegible] prime volubilis orbis [illegible]
dicus. Sequitur ergo hoc modo
secundum intrando ad nos locum Solis
ad [illegible] intrantia per orbem [illegible]-
[illegible] quadrantes directe ad
verticibus suis et in [illegible]
in directo secundum [illegible] figura
in quo est polus [illegible] directe
et [illegible] perpendicularis [illegible]. 4
inter hoc et [illegible] 10
et dicitur perpendicularis inter 4 et hoc
et [illegible] dicitur. Et tunc ad hoc
ad hoc [illegible] [illegible]
vel apparentium et quod [illegible]
et [illegible] [illegible] [illegible]
vel apparentes. [illegible] [illegible]
et ideo ille [illegible] qui [illegible]-
[illegible] vel alia que [illegible]
ad figuram dicit vel

Quibus [illegible] diffusius
[illegible] et [illegible] [illegible]-
[illegible] Veneris quod [illegible]
[illegible] est nobis
[illegible] [illegible] in investiga-
de apparentia Veneris ut te-
statur ptholomeus in [illegible]
et in centiloquio et haly
super commentator ibidem in
illa parte. [illegible] positiones [illegible]
[illegible] [illegible] est [illegible]
[illegible] difficile et [illegible] vide-
[illegible] cum in [illegible] tam
[illegible] in [illegible] motus lune [illegible]
et [illegible] in [illegible] [illegible]
[illegible]. [illegible] cum [illegible]
equinoctialis et [illegible] [illegible]
ut videtur in [illegible] lune [illegible]

et polus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] et
[illegible] [illegible] in [illegible] zo[diaci] ut
videtur in [illegible] [illegible] [illegible]
vide. [illegible] [illegible] [illegible] [illegible]-
[illegible] [illegible]. Et per [illegible] [illegible]
[illegible] [illegible] zo[diaci] [illegible] [illegible]
equinoctialis ut [illegible] [illegible] [illegible]
[illegible] ad [illegible] per [illegible] [illegible]
zo[diaci] [illegible] [illegible] per [illegible] per
[illegible] equinoctialis et [illegible] [illegible]
difficile 4 [illegible] in [illegible]
[illegible] quod 4 zo[diaci] et equinoct[ialis].
ad [illegible] [illegible] [illegible]
in [illegible] [illegible] et [illegible] in 4
[illegible] [illegible] locis
[illegible] et duobus [illegible]-
[illegible]. et [illegible] per polus [illegible]
in aliquo [illegible] [illegible]
et [illegible] in aliquo [illegible] [illegible] ut
[illegible] [illegible] per 4 [illegible]
[illegible] [illegible] [illegible] [illegible] est
in aliis locis. [illegible] [illegible]
4 [illegible] Solis et [illegible] in
[illegible] Veneris [illegible] [illegible] [illegible]-
[illegible] [illegible] secundum [illegible] [illegible]
[illegible] [illegible] [illegible] per
[illegible] [illegible] zo[diaci] et [illegible] [illegible]-
[illegible]. et [illegible] [illegible] [illegible] in
[illegible] [illegible] [illegible] [illegible]-
[illegible] vel apparentes [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible] ad [illegible]
[illegible] [illegible] locum [illegible] et in
locum [illegible] [illegible] [illegible] [illegible]
et [illegible] quod [illegible] [illegible] [illegible]
in [illegible] nulla est quod [illegible] [illegible]

Epicicli est in arcu augis cen-
tri. Et quantitas dyametri
tabulis prout inveniuntur / sed alia
inventis addita aut [illegible] ali-
quo post examinata / et non ab
[illegible] [illegible] / Habito gradu ubi
loco solis et vero loco lune
[illegible] aut vero loco solis [illegible]
tabulam aspectuum [illegible] et
[illegible] recta et accipe aspe-
ctuum plus convenientes [illegible]
et [illegible] aut [illegible] in [illegible] se-
cundum in loco solis et inter
[illegible] ultimo gradus quas aspe-
ctuum [illegible] ad [illegible] / [illegible]
[illegible] in eadem tabulam
aut [illegible] loco lune et [illegible] aspe-
ctuum plus convenientes quas
[illegible] (Dimidium [illegible] aspe-
ctuum gradus (Gradus ab aspe-
ctibus gradus lune [illegible] partes [illegible]
ad partes [illegible] 360 gradus
[illegible] et [illegible] quod
remanet [illegible] illud (Et
est [illegible] quod [illegible] est [illegible]
aspectus [illegible] [illegible] [illegible]
est 90 gradus [illegible] 2ao
gradus (Si [illegible] 90
gradus vel 2ao [illegible] in
eadem [illegible] est [illegible] aspectus
(Si [illegible] minus 90
gradibus vel minus 2ao gradibus
aspectus [illegible] futurus est
vel si [illegible] plus 90
vel plus 2ao [illegible] aspectus
[illegible] (Si [illegible] [illegible]-
[illegible] minus 90 gradus vel 2ao

Gradus [illegible] illud a 90 vel
a 2ao et quod [illegible] ad
[illegible] aspectuum veri loci
lune quas aspectuum [illegible]
[illegible] et illud quod [illegible]
[illegible] ad gradus [illegible] [illegible]
[illegible] tabulam [illegible] [illegible]
et [illegible] illo quod [illegible] [illegible]
[illegible] loco lune [illegible] [illegible]
et [illegible] quod remanet [illegible] et
[illegible] [illegible] [illegible] ad aspectum
futurum [illegible] [illegible] (Si [illegible]
[illegible] aspectuum solis
ab aspectibus lune rema-
nserit plus 90 vel 2ao
gradus [illegible] ab illo [illegible]
90 gradus vel 2ao (Et quod
remanet [illegible] ab aspe-
ctibus loci lune et quod rema-
net [illegible] ad gradus [illegible]
(Et quod [illegible] illud [illegible]
[illegible] loco lune et quod rema-
nserit [illegible] [illegible] [illegible]
[illegible] ab aspectu [illegible] longe [illegible]
[illegible] 90 [illegible] ab aspectu vel
ad aspectum [illegible] et [illegible]
(Scias motum solis in uno
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] solis
[illegible] [illegible] [illegible] [illegible] ad
[illegible] [illegible] [illegible] [illegible] / et [illegible]
[illegible] [illegible] [illegible] a 2o [illegible]
[illegible] motus solis
[illegible] ad [illegible] [illegible] [illegible] (Scilicet
[illegible] de luna / Et [illegible]
[illegible] [illegible] in luna ad [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] quod quadrantes [illegible]
[illegible] est ad [illegible]
[illegible] est futurus [illegible]
[illegible] est ab [illegible]
[illegible]
[illegible] in [illegible]
[illegible]
[illegible]
[illegible]
et ad [illegible]
[illegible] in uno [illegible]
[illegible]
[illegible] in uno [illegible]
[illegible]
[illegible] in uno
[illegible]
[illegible]
[illegible]
[illegible] est [illegible]
[illegible]
[illegible]
[illegible] futurus [illegible]
[illegible]
[illegible]
[illegible] est [illegible]
[illegible]
[illegible]
[illegible]
[illegible] est [illegible]
[illegible]
[illegible]
[illegible]
[illegible] est [illegible]
[illegible]

[illegible] ad illa [illegible]
[illegible] in [illegible]
in [illegible]
[illegible]
[illegible]
[illegible]
[illegible] est
[illegible]
[illegible] tabula [illegible]
[illegible]
in [illegible] est [illegible]
[illegible]
[illegible]
[illegible] qui [illegible]
[illegible] in [illegible] in
[illegible] in [illegible]
[illegible]
[illegible] ut [illegible]
[illegible]
[illegible] in [illegible]

O[illegible] ut quartum
Saturni Martis et
[illegible] aliorum planetarum
in [illegible]
[illegible]
[illegible]
[illegible] qui in tabulis
[illegible]
[illegible]
[illegible] planetarum [illegible]
[illegible]
[illegible]
[illegible]
[illegible] est [illegible]
[illegible]
[illegible]
[illegible] in uno

Dic quod in inueniendo per argumentum propria
linea tabule medij motus
Et postea eius medij motus
et quod inuenietur est superior
Deinde ge longitudinem propriam
cum et ponitur in eius tabula
dextris et sic quod semper deinceps
funiculus et quod inuenitur
addere ad partes in medio si cadit
sub septem retrogradationis vel post
ea secundum locum quod proponit hic
ge uel loco alio post hec
medio eiusdem a arcus inuenitur
longitudo sui centri Deinde cum
retrogradationis post propriam ad medio
dicitur per partes et quod cum per
eiusdem et postea in quatuor
per medio dico si fuerit alio
directe vel retrogradi quod potest
uide per tabulam sequentem Et quod inuenitur
inuenitur est motus medius diei
medius Deinde retrogradatio si uel
sunt directus vel retrogradus
habes aliam regulam in sequentibus
Deinde post hec sex minuta
retrogradationis a medio diei vero
eius post. et quod inuenitur
est superior sui centri per cur
redit longitudinem que est uel
si medius motus medius est et
medium medio sed ad via uel ad
quartum redit superiorem ad
medium per medio diuersitatis
ad quod redit. longitudinem addere
redit est superiorem adde
Cum fuerit dico longitudinem
superiorem tunc que est dico
i. si retrograde longitudinem addit

et si inuenitur aliquod per
diuersitatis uelocitatis et prius totidem
per eiusdem quod prius et tunc quod
est uel dicitur et secundum
ipsius planete Similiter
et patet quod partes in medio per
diuersitatis addere ad partes per quod est
ipsius argumenti locum si tunc quatuor
quatuor et futura vel post hec
secundum si tunc quarum semper
Et quod per addere vel post hec
cum inuenitur erit semper vel
quatuor Et ille est modus
inueniendi in aliqua planete
quorum quatuor quatuor sunt
directe vel retrogradi Et
ad uel cum sunt directe
vel retrogradi per aliud
modum oportet operari et
ille super conuenit vel contra
sit in quarta medii
tabularum vel in aliquibus sub
partes alio sed in contra
in quartam tabularum superiorum
ad inferiorum et tamen uel
si non sit hic modus
semper Similiter que sunt directe
tunc dicit disponit aliter
et tunc superiorum aliter
dispositionem a parte disponit
et aliter alia singulis operat
eorum Cum igitur in uel
medio in retrogradatio
aliud directe tunc quare
medio directi in uel
gradu sunt et partes diebus capitulo

ad retrogradum in uno die propter
hoc modo primo accipe equaciones cum
numero argumenti cum addicione
sol ad [illegible] diem primum / et erit
[illegible] motus [illegible] post [illegible]
et [illegible] motus [illegible] et illud
quod remanet erit [illegible] quod
retrocedit in uno die quo
motu [illegible] per retrogradacionem
in uno die / Similiter [illegible]
per motum planete directi in
uno die et quantitatem motus
retrogradacionis eius in uno
die [illegible] [illegible] motus
[illegible] et [illegible] illud quod provenit
[illegible] longitudinem ut prius dictum
est et [illegible] [illegible] [illegible]
[illegible] in medio [illegible]
[illegible] / [illegible] quo [illegible] [illegible]
[illegible] [illegible] et [illegible]
diem vel [illegible] provenit
est [illegible] [illegible] / Sic et
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ad illud
[illegible] [illegible] [illegible]
quod [illegible] loca [illegible]
[illegible] est in [illegible] loca
[illegible] est / Et [illegible] [illegible]
[illegible] [illegible] motus
[illegible] [illegible] motus [illegible]
in uno [illegible] diei [illegible]
prius dictum / Scias [illegible]
[illegible] [illegible] [illegible]
vel [illegible] vel [illegible] motus
[illegible] in uno [illegible] diei [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] illud quod provenit [illegible]
[illegible] vel [illegible] [illegible] [illegible]

[illegible] longitudinem [illegible] quod est
in una die / Et si aliquid re-
manserit [illegible] illud per [illegible]
[illegible] [illegible] quod prius [illegible]
quod [illegible] diei [illegible] [illegible]
dies sufficiunt / Cum fuerit
[illegible] in medio [illegible]
addere cum [illegible] in medio
[illegible] addicione debet [illegible]
[illegible] vel [illegible] [illegible]
[illegible] [illegible] [illegible] per [illegible]
diem vel [illegible] provenit
est [illegible] [illegible] [illegible]

Et si [illegible] stellarum fixarum
[illegible] tempore in [illegible]
[illegible] quo loca earum
inventa [illegible] aliquo tempore tabu-
lato / et fuerint loca ultra
inventa per alphonsum / Scias
quod motus accessus et recessus
octave spere tempore alphonsi
[illegible] [illegible] hoc modo /
Accipe in tabula mediorum
motuum octave spere radicem
alphonsi [illegible] [illegible] est / Accipe
et illud quod [illegible] [illegible] in
[illegible] linea [illegible] [illegible]
[illegible] motus et est [illegible] quod
[illegible] [illegible] [illegible] quam [illegible]
[illegible] / [illegible] [illegible] [illegible]
[illegible] [illegible] accessus et recessus
[illegible] spere [illegible] alphonsi [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] / alphonsi
[illegible] [illegible] / Et illud quod
[illegible] [illegible] in [illegible]

ex sit sub illa aliquam figuram ad quibus sunt declinationes. Autem tabu-
larum equationum latitudinis accessus
et recessus dicitur supra. Et quan-
titatem predictam sunt in tabula
motus augium. Tabula
equationum centri et argumenti
stellarum que sunt tempore Ptolomei
ad illa tempore in vitello
et aliud quod inveniunt que
etc. [illegible] que sunt
tempore Alphonsi et aliarum que
in tempore temporum apparentibus
sunt quod [illegible] Deinde
[illegible] ad [illegible]
que sunt a tempore Alphonsi
usque ad tempus apparentium
sunt et quod motum augium
et stellarum fixarum non accipitur
radix aliquam et ad illos qui
inveniunt addere [illegible] equationes
equationes per [illegible] et qui
per [illegible] inveniunt addere
locum augis stelle super tempus
Alphonsi et inveniunt
ut locum ad tempus apparentis
sunt. Et primo quod ille modus
[illegible] durat diu ne-
niunt quod [illegible] in mo-
tu accessus recessus sunt
supra quod tamen diu augium
terminus est motus omnis dum
ut quod inveniunt quod [illegible]
Deinde non [illegible] declinationes
quod sunt [illegible] videlicet
et illa qui [illegible] temporum
[illegible] durant [illegible]

Quantitatem ~~[illegible]~~ augis plane-
te ad quandam stellarum
fixarum in [illegible]
Sciens primo locum illius stelle
in qua volueris hoc [illegible]
[illegible] et [illegible] Et
et intellige a polis zodiaci
et ex ipso est locus alicuius
stelle super in zodiaco est locus
eclipticae per quem transit linea
ut [illegible] super polos
zodiaci. Tamen stelle longe illa
stelle [illegible] distat ab
ecliptica et illa distantia
vocatur latitudo stelle et prius
quod longitudines eorum [illegible]
sub [illegible] per eorum distan-
tiam ab ecliptica. Declinationes
ab ecliptica equinoctiali vocantur
[illegible] declinationes
secundum eclipticam non quod [illegible]
planeta et ad [illegible]
ad stellam super [illegible] inveniunt
venit ad locum zodiaci per
que transit linea transiens
per polos zodiaci. Et tamen stelle
[illegible] quantitatem
alicuius stelle planete [illegible]
stellarum fixarum in [illegible]
Deinde et primo locum stelle
[illegible] in [illegible]
Deinde et locum planete
ad tempus [illegible] per
[illegible] et [illegible] distantiam
inter stellam et planetam. Deinde
et [illegible] planete [illegible]

vel in eius medio durationis p[er]debit
eam in predictis diebus ut
suis d[e]ductis p[ro]babili[ter] indica
quod motus eius non est p[er]ceptibil[is]
ipsa igitur hora. Deinde
conjunctionis [et] p[re]ventionis planetarum in
una die tabule ipsius medio
dici et cum in orbibus aliquis
eius est motus predictus est
in quantitatibus planetarum
ut est secundum Alphonsum etc.

Expliciunt canones
tabularum Illustrissimi
Regis Alphonsi per manus
Nicolai ... de G... O...
Anno domini m° ccc° vicesimo
quarto in festo Sancti Nico-
lai Episcopi et Confessoris.
Per infinita secula seculorum
Amen.

Eclipsis
solis qu-
antitatem
et durationem perscrutaturus in
veram coniunctionem mediam quere

solis et lune ad quam possibilitas
eclipsis ... vel declinationem
convenit ad hoc ordinati
quia in media coniunctione medium
motum solis et lune ... ad
lune medium ad ipsius medie
quantitatem ... eius deducto
latitudinis lune et ad hoc
quantitas ... aliquis coniunctionis
... motus ... ut
possibile ... augis solis in
coniunctione vel declinationem convenit
ad hoc ordinati ...
et predictis ... augis solis
anomalie motum ... et
convenit ... solis ad quam
in tabula tabularum ... solis
... in
... et equationis in
... in medio ... anomalie
motus solis ... sunt in
tabulis ... vel ad ...
sunt ... et ... additionis
vel subtractionis provenit ...
verus locus solis hora ... quantitas
medie quam ... deinde
... medio lune in tabula in
tabulis ... lune ...
argumenti in ... in ...
... anomalie motum lune
... sunt in ...
vel ad ... sunt plus ...
... additionis vel subtractionis
provenit ... verus locus lune
deinde ... motu

[illegible]

[illegible]

[illegible] inspice [illegible]

tabula et [illegible] in directo [illegible]

Sed si in principio [illegible] signi luna non fuit [illegible] signis [illegible] medio [illegible] directum [illegible] argumenti accepte [illegible] signis [illegible] directum latitudinis [illegible] minuta [illegible] in signo in quo est et [illegible] dicitur [illegible]. Et [illegible] in tabula [illegible] non minuta [illegible] latitudinis minuta [illegible] [illegible] in [illegible] [illegible] medio [illegible] [illegible] argumentis [illegible] argumenti [illegible]. Si fuit [illegible] que fuit accepta [illegible] signis [illegible] [illegible]. Et [illegible] argumenti [illegible] [illegible] luna in [illegible]. Et [illegible] luna [illegible] fuit in [illegible] [illegible] luna [illegible]

[illegible] in tabulis [illegible] minuta que in directo [illegible] argumenti [illegible] luna [illegible] et [illegible] [illegible] argumentis [illegible] [illegible] argumenti [illegible] [illegible] luna in [illegible] [illegible]

[illegible] minuta [illegible] argumenti [illegible] in [illegible] [illegible] in tabulis [illegible] in directo [illegible] que in tabulis [illegible] minuta [illegible] argumenti [illegible] ultra accepte [illegible] dicitur [illegible] [illegible] ultra accepte [illegible] argumenti [illegible] luna in [illegible] [illegible] argumenti [illegible] luna in [illegible] hora. Et [illegible] hora. [illegible] fuit [illegible] [illegible] non [illegible] dicitur [illegible] minuta [illegible] dicitur [illegible] hora. [illegible] fuit minuta [illegible] dicitur [illegible] [illegible] in [illegible] argumenti [illegible] hore [illegible] minuta [illegible] hora [illegible] [illegible]. Si [illegible] luna [illegible] fuit [illegible] [illegible] [illegible] [illegible] [illegible]. Si [illegible] [illegible] [illegible] [illegible] minuta tabularum [illegible]

[illegible] in [illegible] [illegible] luna in [illegible]

[illegible]

[illegible]

quod intr. tabularum dimidii aspectu
et tempus medii [illegible] in utroque
in media eclipsis luna per
redeundo post prius sed per latitudinem
medie et luna in 30 [illegible]
capitulo. Et per capitulo 1 dicto tamen
media apparentia non sit eadem
cum qua prius fuerit propter
a luna diversitas non adequatur
ad lunam [illegible] latitudinis lune diverso
tempore medie eclipsis tabularum
attamen tempus medii apparentis
eadem. Et eclipsis non differt
quia ad [illegible] plus autem
quod proinde. Et dimidii aspectu
in latitudine in media quod semper
indifferenter in aliis regionibus
quarum latitudo est circa 24
graduum. Et si latitudo sit
meridionalis [illegible] sit
per latitudinem lune et dimidii aspectu
in latitudine. Et sit in eadem
parte. Et [illegible] dimidii aspectu
sit media [illegible] latitudo lune
sit [illegible] latitudinis
[illegible] latitudo
[illegible] cum minus sit ad
[illegible] latitudo [illegible]
per latitudinem lune sit [illegible]
et [illegible] dimidii aspectu medie
[illegible] latitudinem
[illegible] dimidii
aspectu sit [illegible]
latitudinis lune [illegible]. Et
[illegible] latitudo
lune [illegible] tempore medie eclipsis

[illegible] dimidii aspectu in latitudine
[illegible] 11 gradus ad [illegible]
1 [illegible] 23 [illegible] gradus et [illegible]
[illegible] pervenit medie
que reducta ad [illegible]
[illegible] latitudinis
[illegible] quod [illegible]
[illegible] per quantum [illegible] et luna
sit [illegible]
vel [illegible] sit [illegible]
Si vero contingat quod non possit
[illegible] quod fuerit quod [illegible] id
[illegible] est [illegible]
[illegible] 360 gradus et [illegible]
[illegible] et [illegible]
[illegible] latitudinis lune
[illegible] ad horam medie
eclipsis [illegible]. Et [illegible]
[illegible] latitudinis
[illegible] gradus latitudinis lune
in tabula [illegible] latitudinis lune
que [illegible] ad [illegible]
et [illegible] eclipsis in [illegible]
[illegible] in latitudine lune
[illegible] et [illegible] quod
[illegible] et [illegible]
Si vero sit [illegible]
[illegible]
[illegible]
[illegible] latitudinis [illegible]
H[illegible] [illegible]
[illegible] eclipsis [illegible]
[illegible]
[illegible]
[illegible]
[illegible] eclipsis [illegible]
[illegible]

puncta eclipsis in directo in
venta que fuerit [illegible]
et cum diversitas intratur si appor-
tet et accipe partem proportionalem
vel proporcionem minutorum ad [illegible]
ad [illegible] ad 30 tunc ad
60 ¶ Deinde intra cum eodem
[illegible] 4to equato ¶ Tabulam
eclipsis ¶ Solis ad longitudinem proporcio-
nem accipiendo puncta [illegible]
in medio ad longitudinem longiorem
pro [illegible] ¶ Deinde [illegible] puncta
in medio ad longitudinem longiorem
[illegible] in medio ad longitudinem
proporcionem [illegible] ¶ Deinde
cum [illegible] 2o equato hoc
medio eclipsis [illegible] in
[illegible] tabulam proporcionis
que [illegible] per duas
[illegible] et [illegible] proporcionalia
in directo in medio [illegible]
¶ Deinde accipe partem proporcionalem
de [illegible] 2m proporcionem
minutorum [illegible] ad 60
¶ [illegible] partem ad [illegible] puncta
eclipsis ad longitudinem longiorem
[illegible] puncta eclipsis
ad longitudinem longiorem equata
[illegible] cum [illegible] eadem
4to [illegible] eandem tabulam
ad longitudinem longiorem accipe
[illegible] ¶ [illegible] in directo in
venta 2m proporcionem minutorum
ad 30 [illegible] que fuerit ¶ [illegible]

[illegible] eadem eandem
tabulam ad longitudinem proporcionem et
accipe [illegible] in directo
[illegible] inventa
ad longitudinem longiorem et [illegible]
accipe partem proporcionalem 2m proporcionem
minutorum equatam proporcionalem
[illegible] ad 60 quia
partem proporcionalem [illegible]
cum [illegible] ad longitudinem
longiorem ¶ [illegible] divide
illa minuta cum [illegible]
[illegible] [illegible] et [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible]
et [illegible]
divide [illegible] et [illegible]
[illegible] que sunt [illegible]
eclipsis et [illegible]
[illegible] horas [illegible]
[illegible] eclipsis
eclipsis [illegible]
eclipsis et [illegible]
[illegible] finis eclipsis et [illegible]
[illegible] habebis
duracionem eclipsis ¶ Deinde
[illegible] horas que sunt [illegible]
[illegible] eclipsis [illegible]
[illegible]
[illegible] hoc [illegible]
eclipsis et [illegible]
[illegible] hoc [illegible]
[illegible] eclipsis [illegible]
[illegible] in [illegible]
eclipsis ¶ [illegible] que [illegible]
[illegible] ad [illegible] habebis
[illegible] in fine eclipsis
[illegible] horas [illegible]

per motum lune in una hora
et super punctum solis hic duo
loca lune tempore eclipsis inicii
et idem solis hic ab ariete latitudinis
lune 4to quanto et punctum
in loco lune et a 2do latitudinis
lune 4to casu in principio eclipsis
Et si est quod non sit eclipsis
diametri habebis punctum in
fine eclipsis. Deinde intra
cum a 2do latitudinis lune 4to casu
in principio eclipsis tabulam latitudinis
lune et in minutis latitudinis
lune in principio eclipsis. Aut est
cum a 2do latitudinis 4to casu in
fine eclipsis et in minutis
latitudinis lune in fine eclipsis.
Deinde habes finale et fine
figuram 27 [illegible] quod

Eclipsis lune quantitatem
et durationem particularis
invenire. Verum per
motum apparentem solis et lune ad
quod invenire sit possibilem
eclipsis lune et apparentem
[illegible] punctum [illegible]
prius dictum est in quantum
Et sic quod in quantum invenis
[illegible] [illegible] [illegible]
solem [illegible] in apparentem
ad [illegible] [illegible] [illegible]
[illegible] solis et [illegible] lune et
in nullo alio [illegible] [illegible]
[illegible]. Et si [illegible] [illegible]
[illegible] non [illegible] aliud [illegible]
quod dicta [illegible]. [illegible]
tempore verissime apparentis [illegible]

ad illud tempus [illegible] medium [illegible]
[illegible]. [illegible] ad [illegible] [illegible]
lune tempore verissime apparentis
in [illegible] et punctum [illegible]
latitudinis 2o [illegible]. Deinde
quere [illegible] [illegible] in tabula
[illegible] [illegible] [illegible] solis
quod [illegible] [illegible] sed [illegible]
[illegible] [illegible] sed dicta sunt in
[illegible] [illegible] [illegible] [illegible]
[illegible] tempore [illegible] apparentis
et punctum tempore verissime apparentis
[illegible] [illegible] [illegible]
[illegible] medie eclipsis. Deinde
[illegible] [illegible] eclipsis. 2a
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] loco lune. Aut talis
eclipsis [illegible] ad longitudinem [illegible]
[illegible] et [illegible] puncta eclipsis
que sunt [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sed [illegible]
in [illegible] eclipsis. Solis [illegible]
[illegible] [illegible] [illegible] [illegible]
si habuit [illegible] [illegible]
[illegible] solis si non habuit [illegible]
[illegible]. [illegible] sunt [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] non habebit [illegible]
[illegible]. Et [illegible] quod [illegible]
[illegible] tempore quod [illegible] principio
eclipsis [illegible] ab [illegible]
[illegible] [illegible] lune [illegible] [illegible]
[illegible] [illegible] ad [illegible] [illegible]
lune. Et [illegible] [illegible] [illegible]
[illegible]. [illegible] ad lune [illegible].

motu proprio apud medie[tatem] usque ad
medi[etatem] eclipsis et minuta casus nota
[illegible] vel [illegible] sunt lune proprio
motu apud eclipsis usque ad principium
mo[illegible] [illegible] usque [illegible] parte
eclipsis [illegible] [illegible] [illegible]
casus adequentur longitudines [illegible]
et [illegible] luna in auge [illegible]
sui epicicli fuit. Si vero luna non
fuit in auge [illegible] sui epi[cicli]
[illegible] [illegible] [illegible] [illegible] [illegible]
eclipsis lunaris adequentur [illegible]
[illegible] [illegible] parte eclipsis
minuta casus [illegible] medie [illegible]
[illegible] [illegible] [illegible] adequentur
longitudines. Si luna fuit [illegible]
augis [illegible] [illegible] [illegible] luna
fuit in auge [illegible] sui epi[cicli]
[illegible] [illegible] adequentur longitudines.
Si vero [illegible] augis [illegible] [illegible]
adequentur [illegible]. Sed si [illegible]
est in auge [illegible] in [illegible] augis
[illegible] [illegible] longitudines [illegible]
est [illegible] [illegible] parte eclipsis
in [illegible] adequentur longitudines
[illegible] in [illegible] adequentur
[illegible] [illegible] et minuta casus
[illegible] casus et minuta medie
[illegible] medie [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
que [illegible] [illegible]
[illegible] minuta [illegible] [illegible]

[illegible] in [illegible] non [illegible]
[illegible] [illegible] que [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] per [illegible]
[illegible] casus [illegible] [illegible] parte
eclipsis [illegible] casus [illegible]
medie in [illegible] adequentur
longitudines [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] minuta [illegible] casus [illegible] [illegible]
casus et [illegible] [illegible] [illegible]
minuta medie [illegible] [illegible]
medie et habebis [illegible]
[illegible] [illegible] [illegible] lune
[illegible] [illegible] minuta casus
[illegible] [illegible] [illegible] lune
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] fuit
[illegible] [illegible] [illegible] [illegible]
[illegible] et [illegible] [illegible] erit
minuta [illegible] et [illegible] [illegible]
[illegible] [illegible] [illegible] et [illegible]
et [illegible] [illegible] erit [illegible]
[illegible] [illegible] habebis [illegible]
minuta [illegible] [illegible] que sunt
apud eclipsis usque ad principium
medie. Si habuerit [illegible]
[illegible] apud eclipsis usque ad
[illegible] non habuerit [illegible]
[illegible] [illegible] [illegible] minuta medie
[illegible] lune [illegible]
[illegible] [illegible] minuta [illegible]
[illegible] sunt minuta [illegible] [illegible]
Si non habebis [illegible]

que sunt a principio more usque ad
medium eclipsis. Alias secundo
horas que sunt a principio eclipsis
ad medium si non habuerit
moram, subtrahe aliter apparentis
veris [illegible] et
remanebit tempus principii eclipsis.
Et si eas addideris
ad tempus vere oppositionis
veniet tempus finis eclipsis.
Si vero eclipsis habuerit mo-
ram, sume horas medie more et
que sunt a principio eclipsis usque ad
principium more adde horis medie
more et que sunt a principio more
usque ad medium eclipsis. Et
totum subtrahe aliter veris
oppositionis et remanebit tempus
principii eclipsis. Subtrahe iterum
tempus quod est a principio more usque
ad medium eclipsis aliter veris
oppositionis et remanebit
principium more. Et si ea addideris
proveniet finis more et
duplicatum tempus quod est a principio
eclipsis usque ad medium proveniet
tota duracio eclipsis usque ad
medium et duplicatum tempus a principio
more usque ad medium eclipsis pro-
veniet tota mora [illegible]
tota luna stat in umbra.
Deinde si [illegible] volueris
horas que a principio eclipsis sunt
usque ad medium [illegible]

medio lune in [illegible]
proveniet. Subtrahe [illegible]
in medio [illegible] veris apparentis
et subtrahe ab arcu latitudinis
et proveniet minuta [illegible] lune in
principio eclipsis et subtrahe ab
arcu latitudinis lune si [illegible] in
[illegible] [illegible] medio [illegible]
[illegible] in illis horis et
proveniet arcus latitudinis lune
[illegible] in principio eclipsis. Et
ad que [illegible] ad
[illegible] [illegible] in fine
eclipsis latitudinem [illegible] lune in
[illegible] [illegible]
[illegible] lune [illegible]
[illegible] arcus latitudinis [illegible] in principio
medio et fine eclipsis figurari
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]

Explicit canones magistri
Johannis Danconis [illegible]

Incipiunt tabule illustris Regis Alphonsij Et primo tabule differentiarum unius regni ad aliud et nomina regnum atque aliarum erarum cognitarum et sunt radices dierum aliarum hic nominatarum in sequentibus tabulis posite etc.

			4	3	2	1
1	D	Diluvij et Regis Alphonsij	7	21	40	38
2	D	Nabuchodonosor et Alphonsij	3	22	44	25
3	D	Mortis Allexandri sive Regis Philippi et Alphonsi	2	39	47	5
4	D	Allexandri magni et Alphonsij	2	38	32	44
5	D	Cesaris et Alphonsij	2	10	44	19
6	D	Incarnationis ihesu xpi et Alphonsij	2	6	57	54
7	D	Dyocleciani et Alphonsij	1	38	11	13
8	D	Regis arabum et Alphonsij	1	3	54	24
9	D	Yesdagerit et Alphonsij	1	2	54	0
10	D	Diluvij et nabuchodonosor	3	58	56	13
11	D	Dyluvij et Allexandri macedonis sive Regis	4	41	51	33
12	D	Dyluvij et Allexandri magni	4	43	7	54
13	D	Dyluvij et ere Cesaris	5	10	51	19
14	D	Dyluvij et incarnationis ihesu xpi	5	14	42	39
15	D	Dyluvij et Dyocleciani	5	43	29	25

16	D	Dyluuij et ere arabum	6	17	46	14
17	D	Dyluuij et ere persarum vltie	6	18	45	33
18	D	Nabuchodnosor et Allex mag primi regis	0	42	29	20
19	D	Nabuchodnosor et Allex magni	0	44	11	41
20	D	Nabuchodnosor et ere cesaris	1	11	55	6
21	D	Nabuchodnosor et incarnacionis ihu xpi	1	15	46	26
22	D	Nabuchodnosor et dyoclecian	1	44	33	12
23	D	Nabuchodnosor et ere arabum	2	18	50	1
24	D	Nabuchodnosor et yesdagert primi regis persarum	2	19	50	25
25	D	Mortis Allex pris philippi z allex	0	1	12	21
26	D	Mortis Allex pris philippi et ere cesaris	0	28	55	46
27	D	Mortis Allex pris phi et incarnacionis ihu xpi	0	32	47	6
28	D	Mortis Allex pris phi et dyoclecian	1	1	33	52
29	D	Mortis Allex pris phi et ere arabum	1	35	50	41
30	D	Mortis Allex p. phi et ere persarum	1	36	51	5
31	D	Allex magni et ere cesaris	0	27	43	25
32	D	Allex magni et incarnacionis ihu xpi	0	37	34	45
33	D	Allex magni et dyoclecian	1	0	21	31
34	D	Allex magni et ere arabum	1	34	38	20
35	D	Allex magni et ere persarum	1	31	38	44
36	D	Era cesaris z incarnacionis ihu xpi	0	3	51	20
37	D	Ere cesaris et dyoclecian	0	32	38	6
38	D	Ere cesaris et ere arabum	1	6	59	55
39	D	Ere cesaris et ere persarum	1	7	56	19
40	D	Incarnacionis ihu xpi et dyoclecian	0	28	46	46
41	D	Incarnacionis xpi et ere arabum	1	3	3	35
42	D	Incarnacionis xpi et ere persarum	1	4	3	59
43	D	Dyoclecian et ere arabum	0	34	16	49
44	D	Dyoclecian et ere persarum	0	35	17	13
45	D	Ere arabum et ere persarum	0	1	0	29

Tabula motus ad extrahendum omnes eras hic positas et ad extrahendum unam incognitam ex altera cognita.

Anni collecti incarnacionis Cesaris et dyocle. (motus alfonsi)	4	3	2	1		Anni expansi et inicia ad duos alpho. et incarnacionis	3	2	1	60		Anni expansi quos ad duos alfo. et dyocleciani	3	2	1	6		Anni expansi ex Cesaris	3	2	1	9
40	0	4	3	30		1	0	6	5	15		1	0	6	5	30		1	0	6	5	45
60	0	6	5	15		2	0	12	10	30		2	0	12	10	45	b.	2	0	12	11	0
80	0	8	7	0		3	0	18	15	45	b.	3	0	18	16	0		3	0	18	16	15
100	0	10	8	45	b.	4	0	24	21	0		4	0	24	21	15		4	0	24	21	30
200	0	20	17	30		5	0	30	26	15		5	0	30	26	30		5	0	30	26	45
300	0	30	26	15		6	0	36	31	30		6	0	36	31	45	b.	6	0	36	32	0
400	0	40	35	0		7	0	42	36	45	b.	7	0	42	37	0		7	0	42	37	15
500	0	50	43	45	b.	8	0	48	42	0		8	0	48	42	15		8	0	48	42	30
600	1	0	52	30		9	0	54	47	15		9	0	54	47	30		9	0	54	47	45
700	1	11	1	15		10	1	0	52	30		10	1	0	52	45	b.	10	0	0	53	0
800	1	21	10	0		11	1	6	57	45	b.	11	1	6	58	0		11	1	6	58	15
900	1	31	18	45	b.	12	1	13	3	0		12	1	13	3	15		12	1	13	3	30
1000	1	41	27	30		13	1	19	8	15		13	1	19	8	30		13	1	19	8	45
2000	3	22	55	0		14	1	25	13	30		14	1	25	13	45	b.	14	1	25	14	0
3000	5	4	22	30		15	1	31	18	45	b.	15	1	31	19	0		15	1	31	19	15
4000	6	45	50	0	b.	16	1	37	24	0		16	1	37	24	15		16	1	37	24	30
5000	8	27	17	30		17	1	43	29	15		17	1	43	29	30		17	1	43	29	45
6000	10	8	45	0		18	1	49	34	30		18	1	49	34	45	b.	18	1	49	35	0
7000	11	50	12	30		19	1	55	39	45	b.	19	1	55	40	0		19	1	55	40	15
8000	13	31	40	0		20	2	1	45	0		20	2	1	45	15		20	2	1	41	30

Menses latinorum ad annos Alphonsi a Junio incipientes	2a	1a	Menses grecorum ad annos incarnationis Christi et Cesaris	2a	1a	Menses grecorum ad annos Alexandri ab octobre incipientes	2a	1a	Menses egiptiorum ad annos Dyocletiani a septembre incipientes	2a	1a
Junius	0	30	Cyp Ja	0	31	Tysrin p9	0	31	Tuth	0	30
Julius	1	1	Dis Fe	0	29	Tysrin 29	1	1	Baba	1	0
Augus	1	32	Aug apri		30	Kenun 19	1	32	Heyour	1	30
Septemb	2	2	Apc ap	2	0	Kenun 29	2	3	Heyhet	2	0
Octob	2	33	Phil ma	2	31	Sawath	2	31	Toca	2	30
Novemb	3	3	Jun jun	3	1	Adar	3	4	Amsir	3	0
Decemb	3	34	Jul jul	3	32	Augar	3	31	Baramat	3	30
Januar	4	5	Pes aug	4	3	Ÿdar	4	3	Bauda	4	0
Februa	4	33	Gor sep	4	33	Haziran	4	33	Buxnox	4	30
Marcius	5	4	Rg oc	5	4	Tamuz	5	4	Juba	5	0
Aprilis	5	34	Dm nov	5	34	Ab	5	34	Abib	5	30
Maius	6	5	Des de	6	5	Eyn elul	6	5	Masre	6	5

Bissextiles	2a	1a	Bissextiles	2a	1a	Bissextiles	2a	1a	Bissextiles	2a	1a
Junius	0	30	Cyp Ja	0	31	Tysrin p9	0	31	Tuth	0	30
Julius	1	1	Dis fe	1	0	Tysrin 29	1	1	Baba	1	0
Augus	1	32	Aug ape	1	31	Kenun 19	1	32	Heyour	1	30
Septemb	2	2	Apc ap	2	1	Kenun 29	2	3	Heyhet	2	0
Octob	2	33	Phil ma	2	32	Sawath	2	33	Toca	2	30
Novemb	3	3	Jun ju	3	2	Adar	3	4	Amsir	3	0
Decemb	3	34	Jul ju	3	33	Augar	3	34	Baramat	3	30
Januar	4	5	Pes au	4	4	Ÿdar	4	6	Bauda	4	0
Februa	4	33	Gor sep	4	34	Haziran	4	36	Buxnox	4	30
Marcius	5	4	Rg oc	5	5	Tamuz	5	5	Juba	5	0
Aprilis	5	34	Dm nov	5	35	Ab	5	36	Abib	5	30
Maius	6	6	Des de	6	6	Eyn elul	6	6	Masre	6	6

Anni collecti ad eram diluvii Nabuchodonosor Alexandri principis Philippi atque persarum et in terminatos christi	4	3	2	1	Anni expansi ad eram diluvii Nabuchodonosor Alexandri principis Philippi atque persarum et christi	3	2	1	60ae
40	0	4	3	20	1	0	6	5	0
60	0	6	5	0	2	0	12	10	0
80	0	8	6	40	3	0	18	15	0
100	0	10	8	20	4	0	24	20	0
200	0	20	16	40	5	0	30	25	0
300	0	30	25	[illegible]	6	0	36	31	0
400	0	40	33	[illegible]	7	0	42	35	0
500	0	50	41	40	8	0	48	40	0
600	1	0	50	0	9	0	54	45	0
700	1	10	58	20	10	1	0	5[illegible]	0
800	1	21	6	40	11	1	6	55	0
900	1	31	15	0	12	1	13	[illegible]	0
1000	1	41	23	20	13	1	19	5	0
2000	3	22	46	40	14	1	25	10	0
3000	5	4	10	0	15	1	31	15	0
4000	6	45	33	20	16	1	37	20	0
5000	8	26	56	40	17	1	43	25	0
6000	10	8	20	0	18	1	49	20	0
7000	11	49	43	20	19	1	55	35	0
8000	13	31	6	40	20	2	1	40	0

Tabula mensium egiptiorum quibus utitur in annis diluvii et nabuchodonosor et philippi per almagesti

	2	1	Menses persorum	2	1	Menses arabum	2	1
Tuth	0	30	Afrudinmeh	0	30	Maharram	0	30
Baba	1	0	Ardihust	1	0	Safar	0	59
Acto	1	30	Cardichast	1	30	Rabe	1	29
Kayach	2	0	Slamant	2	0	Rabe	1	58
Tobi	2	30	Mardeme	2	30	Iumet	2	28
Mabir	3	0	Sachiurre	3	0	Iumet	2	57
Phama	3	30	Maharmeh	3	30	Ramp	3	27
Bruch	4	0	Alamech	4	0	Scabale	3	56
Marmod	4	30	Drumet	4	30	Ramadu	4	26
Macton	5	0	Domah	5	0	Sawal	4	55
Epactan	5	30	Bemoure	5	30	Dulcada	5	25
Mazuol	6	0	Asfendarmeh	6	0	Dulcida	5	54

Tabula ad inveniendum eram Arabum et annum et diem eius quibus incipit eorum annus

Anni collecti arabum	4	3	2	1		Anni expansi arabum	3	2	1	60ae
30	0	2	50	11		1	0	5	54	11
60	0	5	44	22	B	2	0	11	49	22
90	0	8	51	33		3	0	17	43	3
120	0	11	48	44		4	0	23	3[illegible]	14
150	0	14	41	55		5	0	29	32	25
180	0	17	43	6	B	6	0	35	26	6
210	0	20	40	17		7	0	41	21	17
240	0	23	37	28		8	0	47	15	28
270	0	26	34	39		9	0	53	4	9
300	0	29	31	50	B	10	0	54	4	20
330	0	32	29	1		11	1	40	58	1
360	0	35	26	12		12	1	10	52	12
390	0	38	23	23		13	1	16	47	23
420	0	41	20	34	B	14	1	22	41	4
450	0	44	17	45		15	1	28	35	15
480	0	47	14	56		16	1	34	30	26
510	0	50	12	7		17	1	40	24	7
540	0	53	9	18	B	18	1	46	19	18
570	0	56	6	29		19	1	52	13	29
600	0	59	3	40		20	1	58	7	10
630	1	2	0	51		21	2	4	2	51
660	1	4	56	2	B	22	2	4	56	2
690	1	7	55	13		23	2	15	50	13
720	1	8	52	24		24	2	21	47	24
750	1	13	49	35		25	2	27	39	5
780	1	16	46	26	B	26	2	33	34	16
810	1	19	43	57		27	2	39	28	27
840	1	22	41	8		28	2	45	22	8
870	1	25	38	19		29	2	51	17	19
900	1	28	35	30		30	2	57	11	0
1800	2	57	11	0						
2700	4	25	46	30						
3600	5	54	22	0						
4500	7	22	57	30						

Vicio est defectus aliquius ratione

Anno domini 1472 cpleto tpus [illegible] cpletu i anis 200 et 1 me[illegible]

Tabula extractionis vnius ex alia ex eis hic positis

Nūs annorum collectorum Alp' reg'	In uno quoque dierum annorum Dilu' p tabulas Alp' verif'				In uno quoque dierum Nabu' p tabulas alp' verif'				In uno quoque dierum p tabulas mortis Allex' p tabulas al'				In uno quoque dierum tabularum allex' p tabulas alp' verif'				In uno quoque dierum tabularum arabum p tabulas al' verif'			
	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
Radices	7	21	40	38	3	22	44	25	2	39	45	5	2	38	32	44	2	10	49	19
20	7	23	42	23	3	24	46	10	2	41	46	50	2	40	34	29	2	12	51	4
40	7	25	44	8	3	26	47	55	2	43	48	35	2	42	36	14	2	14	52	49
60	7	27	45	53	3	28	49	40	2	45	50	20	2	44	37	59	2	16	54	34
80	7	29	47	38	3	30	51	25	2	47	52	5	2	46	39	44	2	18	56	19
100	7	31	49	23	3	32	53	10	2	49	53	50	2	48	41	29	2	20	58	4
120	7	33	51	8	3	34	54	55	2	51	55	35	2	50	43	14	2	22	59	49
140	7	35	52	53	3	36	56	40	2	53	57	20	2	52	44	59	2	25	1	34
160	7	37	54	38	3	38	58	25	2	55	59	5	2	54	46	44	2	27	3	19
180	7	39	56	23	3	41	0	10	2	58	0	50	2	56	48	29	2	29	5	4
200	7	41	58	8	3	43	1	55	3	0	2	35	2	58	50	14	2	31	6	49
220	7	43	59	53	3	45	3	40	3	2	4	20	3	0	51	59	2	33	8	34
240	7	46	1	38	3	47	5	25	3	4	6	5	3	2	53	44	2	35	10	19
260	7	48	3	23	3	49	7	10	3	6	7	50	3	4	55	29	2	37	12	4
280	7	50	5	8	3	51	8	55	3	8	9	35	3	6	57	14	2	39	13	49
300	7	52	6	53	3	53	10	40	3	10	11	20	3	8	58	59	2	41	15	34
320	7	54	8	38	3	55	12	25	3	12	13	5	3	11	0	44	2	43	17	19
340	7	56	10	23	3	57	14	10	3	14	14	50	3	13	2	29	2	45	19	4
360	7	58	12	8	3	59	15	55	3	16	16	35	3	15	4	14	2	47	20	49
380	8	0	13	53	4	1	17	40	3	18	18	35	3	17	5	59	2	49	22	34
400	8	2	15	38	4	3	19	25	3	20	20	5	3	19	7	44	2	51	24	19
420	8	4	17	23	4	5	21	10	3	22	21	50	3	21	9	29	2	53	26	4
440	8	6	19	8	4	7	22	55	3	24	23	35	3	23	11	14	2	55	27	49
460	8	8	20	53	4	9	24	40	3	26	25	20	3	25	12	59	2	57	29	34
480	8	10	22	38	4	11	26	25	3	28	27	5	3	27	14	44	2	59	31	19
500	8	12	24	23	4	13	28	10	3	30	28	50	3	29	16	29	3	1	33	4
520	8	14	26	8	4	15	29	55	3	32	30	35	3	31	18	14	3	3	34	49
540	8	16	27	53	4	17	31	40	3	34	32	20	3	33	19	59	3	5	36	34
560	8	18	29	38	4	19	33	25	3	36	34	5	3	35	21	44	3	7	38	19
580	8	20	31	23	4	21	35	10	3	38	35	50	3	37	23	29	3	9	40	4
600	8	22	33	8	4	23	36	55	3	40	37	35	3	39	25	14	3	11	41	49
620	8	24	34	53	4	25	38	40	3	42	39	20	3	41	26	59	3	13	43	34
640	8	26	36	38	4	27	40	25	3	44	41	5	3	43	28	44	3	15	45	19
660	8	28	38	23	4	29	42	10	3	46	42	50	3	45	30	29	3	17	47	4
680	8	30	40	8	4	31	43	55	3	48	44	35	3	47	32	14	3	19	48	49
700	8	32	41	53	4	33	45	40	3	50	46	20	3	49	33	59	3	21	50	34
720	8	34	43	38	4	35	47	25	3	52	48	5	3	51	35	44	3	23	52	19
740	8	36	45	23	4	37	49	10	3	54	49	50	3	53	37	29	3	25	54	4
760	8	38	47	8	4	39	50	55	3	56	51	35	3	55	39	14	3	27	55	49

Tabula extractionis [illegible] ex tabula [illegible] hic [illegible]

Anni annorum collectorum de [illegible]	Inventio dierum et annorum [illegible] ex pariis alf				Inventio dierum et [illegible] per annos alphonsi				Inventio dierum [illegible] per annos alf				Inventio dierum et annorum [illegible] per annos alphonsi			
	4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
Radices	2	6	57	59	1	38	11	13	1	3	54	24	1	2	54	0
20	2	8	59	44	1	40	12	58	1	5	56	9	1	4	55	45
40	2	11	1	29	1	42	14	43	1	7	57	54	1	6	57	30
60	2	13	3	14	1	44	16	28	1	9	59	39	1	8	59	15
80	2	15	4	59	1	46	18	13	1	12	1	24	1	11	1	0
100	2	17	6	44	1	48	19	58	1	14	3	9	1	13	2	45
120	2	19	8	29	1	50	21	43	1	16	4	54	1	15	4	30
140	2	21	10	14	1	52	23	28	1	18	6	39	1	17	6	15
160	2	23	11	59	1	54	25	13	1	20	8	24	1	19	8	0
180	2	25	13	44	1	56	26	58	1	22	10	9	1	21	9	45
200	2	27	15	29	1	58	28	43	1	24	11	54	1	23	11	30
220	2	29	17	14	2	0	30	28	1	26	13	39	1	25	13	15
240	2	31	18	59	2	2	32	13	1	28	15	24	1	27	15	0
260	2	33	20	44	2	4	33	58	1	30	17	9	1	29	16	45
280	2	35	22	29	2	6	35	43	1	32	18	54	1	31	18	30
300	2	37	24	14	2	8	37	28	1	34	20	39	1	33	20	15
320	2	39	25	59	2	10	39	13	1	36	22	24	1	35	22	0
340	2	41	27	44	2	12	40	58	1	38	24	9	1	37	23	45
360	2	43	29	29	2	14	42	43	1	40	25	54	1	39	25	30
380	2	45	31	14	2	16	44	28	1	42	27	39	1	41	27	15
400	2	47	32	59	2	18	46	13	1	44	29	24	1	43	29	0
420	2	49	34	44	2	20	47	58	1	46	31	9	1	45	30	45
440	2	51	36	29	2	22	49	43	1	48	32	54	1	47	32	30
460	2	53	38	14	2	24	51	28	1	50	34	39	1	49	34	15
480	2	55	39	59	2	26	53	13	1	52	36	24	1	51	36	0
500	2	57	41	44	2	28	54	58	1	54	38	9	1	53	37	45
520	2	59	43	29	2	30	56	43	1	56	39	54	1	55	39	30
540	3	1	45	14	2	32	58	28	1	58	41	39	1	57	41	15
560	3	3	46	59	2	35	0	13	2	0	43	24	1	59	43	0
580	3	5	48	44	2	37	1	58	2	2	45	9	2	1	44	45
600	3	7	50	29	2	39	3	43	2	4	46	54	2	3	46	30
620	3	9	52	14	2	41	5	28	2	6	48	39	2	5	48	15
640	3	11	53	59	2	43	7	13	2	8	50	24	2	7	50	0
660	3	13	55	44	2	45	8	58	2	10	52	9	2	9	51	45
680	3	15	57	29	2	47	10	43	2	12	53	54	2	11	53	30
700	3	17	59	14	2	49	12	28	2	14	55	39	2	13	55	15
720	3	20	0	59	2	51	14	13	2	16	57	24	2	15	57	0
740	3	22	2	44	2	53	15	58	2	18	59	9	2	17	58	45
760	3	24	4	29	2	55	17	43	2	20	0	54	2	20	0	30

[illegible]

Tabula extractionis [illegible] ex tabula [illegible]

	4	3	2	1
1	0	0	6	5
2	0	0	12	10
3	0	0	18	15
4	0	0	24	21
5	0	0	30	26
6	0	0	36	31
7	0	0	42	36
8	0	0	48	42
9	0	0	54	47
10	0	1	0	52
11	0	1	6	57
12	0	1	13	3
13	0	1	19	8
14	0	1	25	13
15	0	1	31	18
16	0	1	37	24
17	0	1	43	29
18	0	1	49	34
19	0	1	55	39
20	0	2	1	45

Hore	[illegible]	[illegible]	2
1	0	2	30
2	0	5	0
3	0	7	30
4	0	10	0
5	0	12	30
6	0	15	0
7	0	17	30
8	0	20	0
9	0	22	30
10	0	25	0
11	0	27	30
12	0	30	0
13	0	32	30
14	0	35	0
15	0	37	30
16	0	40	0
17	0	42	30
18	0	45	0
19	0	47	30
20	0	50	0
21	0	52	30
22	0	55	0
23	0	57	30
24	1	0	0

Tabula [illegible]

Tabula notarum dierum mensium vel dierum continuorum istorum volueris // Tabula bona est

	1	2	3	4		1	2	3	4
1	1	4	2	1	31	3	5	6	3
2	2	1	4	2	32	4	2	1	4
3	3	5	6	3	33	5	6	3	5
4	4	5	1	4	34	7	3	5	6
5	5	6	3	5	35	7	7	7	7
6	6	3	5	6	36	1	4	2	1
7	7	7	7	7	37	2	1	4	2
8	1	4	2	1	38	3	5	6	3
9	2	1	4	2	39	4	2	1	4
10	3	5	6	3	40	5	6	3	5
11	4	2	1	2	41	6	3	5	6
12	5	6	3	5	42	7	7	7	7
13	6	3	5	6	43	1	4	2	1
14	7	7	7	7	44	2	1	4	2
15	1	4	2	1	45	3	5	6	3
16	2	1	4	2	46	4	2	1	4
17	3	5	6	3	47	5	6	3	5
18	4	2	1	4	48	6	3	5	6
19	5	6	3	5	49	7	7	7	7
20	6	3	5	6	50	1	4	2	1
21	7	7	7	7	51	2	1	4	2
22	1	4	2	2	52	3	5	6	3
23	2	1	4	2	53	4	2	1	4
24	3	5	6	3	54	5	6	3	5
25	4	2	1	[illegible]	55	6	3	5	6
26	5	6	3	5	56	7	7	7	7
27	6	3	5	6	57	1	4	2	1
28	7	7	7	7	58	2	1	4	2
29	1	4	2	1	59	3	5	6	3
30	2	1	4	2	60	4	2	1	4

Tabula ad sciendum minuta diei et earum fractiones per minuta horarum et earum fractiones

hore	dies	m	2a	hore	dies	m	2a
1	0	2	30	31	1	17	30
2	0	5	0	32	1	20	0
3	0	7	30	33	1	22	30
4	0	10	0	34	1	25	0
5	0	12	30	35	1	27	30
6	0	15	0	36	1	30	0
7	0	17	30	37	1	32	30
8	0	20	0	38	1	35	0
9	0	22	30	39	1	37	30
10	0	25	0	40	1	40	0
11	0	27	30	41	1	42	30
12	0	30	0	42	1	45	0
13	0	32	30	43	1	47	30
14	0	35	0	44	1	50	0
15	0	37	30	45	1	52	30
16	0	40	0	46	1	55	0
17	0	42	30	47	1	57	30
18	0	45	0	48	2	0	0
19	0	47	30	49	2	2	30
20	0	50	0	50	2	5	0
21	0	52	30	51	2	7	30
22	0	55	0	52	2	10	0
23	0	57	30	53	2	12	30
24	1	0	0	54	2	15	0
25	1	2	30	55	2	17	30
26	1	5	0	56	2	20	0
27	1	7	30	57	2	22	30
28	1	10	0	58	2	25	0
29	1	12	30	59	2	27	30
30	1	15	0	60	2	30	0

Tabula ad sciendum horas et partes fractiones per minuta diei et partes fractiones

dies	hore	2a	dies	hore	2a
1	0	24	31	12	24
2	0	48	32	12	48
3	1	12	33	13	12
4	1	36	34	13	36
5	2	0	35	14	0
6	2	24	36	14	24
7	2	48	37	14	48
8	3	12	38	15	12
9	3	36	39	15	36
10	4	0	40	16	0
11	4	24	41	16	24
12	4	48	42	16	48
13	5	12	43	17	12
14	5	36	44	17	36
15	6	0	45	18	0
16	6	24	46	18	24
17	6	48	47	18	48
18	7	12	48	19	12
19	7	36	49	19	36
20	8	0	50	20	0
21	8	24	51	20	24
22	8	48	52	20	48
23	9	12	53	21	12
24	9	36	54	21	36
25	10	0	55	22	0
26	10	24	56	22	24
27	10	48	57	22	48
28	11	12	58	23	12
29	11	36	59	23	36
30	12	0	60	24	0

Tabula radicum notarum annorum

Dyluuii	5	[illegible]	7
Nabuchodonosor	4	Diocletiani	6
Philippi	2	Arabum	5
Allexandri	2	Persarum	3
[illegible]	1	Alphonsi	7

2	2	3	4	2	2	3	4
3	3	4	1	3	3	4	
4	4			4	4		

2	2	2	2	2	2
3	2	3	3	2	3
4	3		[illegible]	3	

Radices motuum hic posite ad eras hic positas ratam

Radices motus octave spere ad eras hic positas Et cetera habe stare

	S	G	M	2
Diluvii	0	19	41	4
eius motus	3	2	57	12
Nabuchodonosor	5	20	48	0
eius motus	0	5	40	27
Philippi	5	42	37	27
eius motus	0	5	40	27
Alexandri magni	5	42	12	7
eius motus	0	2	37	39
Cesaris	10	57	17	18
eius motus	0	0	27	51
Incarnationis	5	29	12	38
eius motus	0	0	7	27
Albategni	0	31	10	26
eius motus	0	4	38	42
Yesdegirt	0	31	41	3
eius motus	0	4	42	47
Alphonsi	1	3	34	4
eius motus	0	8	4	1

Tabula radicum medii motus Solis ad eras superpositas Saturni Veneris et Mercurii

	S	G	M	2	3	4
Diluvii	5	1	23	32	58	49
Nabuchodonosor	5	27	48	42	21	9
Philippi	3	46	26	43	3	17
Alexandri	3	5	8	12	42	23
Cesaris	4	37	34	41	16	29
Incarnationis	4	38	21	0	30	28
Albategni	1	29	52	2	0	50
Yesdegirt	1	26	50	29	11	0
Alphonsi	1	16	27	14	38	43

Tabula radicum augium Saturni Iovis Martis Lune ad eras hic positas

	S	G	M	2	3	4
Diluvii	2	24	31	4	44	28
Nabuchodonosor	1	13	17	42	0	42
Alexandri	5	17	56	34	1	12
Cesaris	3	11	6	59	9	17
Incarnationis	3	34	42	42	58	38 29
Arabum	5	55	7	11	55	17
Yesdegirt	0	58	17	39	6	4
Alphonsi	2	34	4	7	3	1

Tabula radicum medii motus Lune ad eras superpositas

	S	G	M	2	3	4
Diluvii	4	47	49	43	52	3
Nabuchodonosor	0	24	40	13	14	12
Alexandri	2	4	21	1	0	38
Cesaris	1	14	27	20	23	17
Incarnationis	2	2	46	50	16	40
Albategni	2	2	1	10	23	53
Yesdegirt	5	53	16	32	5	2
Alphonsi	5	36	7	21	11	49

Tabula radicum capitis draconis ad eras hic positas

	S	G	M	2	3
Diluvii	3	36	51	21	17
Nabuchodonosor	0	40	47	19	5
Alexandri	3	11	49	33	20
Cesaris	1	11	51	34	5
Incarnationis	1	31	55	42	21
Albategni	3	53	20	35	51
Yesdegirt	1	5	19	56	21
Alphonsi	2	16	12	40	12

Tabula radicum augium Solis et Veneris sine motu octave spere hic ad eras positas Et cetera habe stare

	S	G	M	2
Diluvii	0	48	37	0
Nabuchodonosor	1	5	56	1
Alexandri	1	9	8	4
Cesaris	1	11	6	6
Incarnationis	1	11	27	23
Albategni	1	17	29	14
Yesdegirt	1	16	3	43
Alphonsi	1	20	36	0

Tabula medii argumenti Lune ad eras superpositas Et cetera habe stare

	S	G	M	2	3	4
Diluvii	3	42	51	4	37	49
Nabuchodonosor	4	13	3	49	54	42
Alexandri	4	27	47	30	18	24
Cesaris	4	26	57	11	30	2
Incarnationis	3	19	0	19	31	17
Albategni	1	47	21	27	42	28
Yesdegirt	4	54	12	33	3	40
Alphonsi	4	10	51	40	9	0

Tabula radicum medie coniunctionis solis et lune ad eras hic positas Et cetera habe stare

	S	G	M	2	3
Diluvii	5	48	26	0	13
Nabuchodonosor	0	18	18	0	54
Alexandri	4	59	12	24	18
Cesaris	3	16	50	39	7
Incarnationis	3	24	27	44	46
Albategni	0	7	9	14	23
Yesdegirt	4	26	21	32	54
Alphonsi	4	19	28	18	33

Radices Motuum hic positorum ad eras hic positas

Tabula radicum motus Saturni

	S	G	M	2	3
Diluvii	4	43	34	47	43
Nabuchodonosor	4	56	38	55	55
Alexandri	3	46	0	47	12
Cesaris	5	29	4	17	23
Incarnationis	1	19	5	20	12
Arabum	1	58	21	0	2
Persarum	3	59	44	31	44
Alphonsi	2	29	44	33	27

Tabula radicum argumenti Veneris

	S	G	M	2	3
Diluvii	0	42	18	24	31
Nabuchodonosor	1	12	20	16	56
Alexandri	4	0	46	31	42
Cesaris	3	32	7	44	7
Incarnationis	2	9	22	2	35
Arabum	0	47	41	7	16
Persarum	2	1	56	28	[illegible]
Alphonsi	0	41	41	55	19

Tabula radicum augis Jovis per motum 8e spere

	S	G	M	2	3
Diluvii	2	17	38	41	44
Nabuchodonosor	2	28	46	41	7
Alexandri	2	31	41	47	19
Cesaris	2	33	14	17	27
Incarnationis	2	33	37	0	4
Arabum	2	38	18	58	10
Persarum	2	40	21	24	17
Alphonsi	2	42	38	41	48

Tabula radicum Jovis

	S	G	M	2	3
Diluvii	5	21	2	3	59
Nabuchodonosor	3	4	42	54	59
Alexandri	1	30	19	7	17
Cesaris	1	46	49	6	9
Incarnationis	3	0	37	20	44
Arabum	5	31	43	9	52
Persarum	4	32	58	19	10
Alphonsi	0	16	15	17	13

Tabula argumenti Mercurii

	S	G	M	2	3
Diluvii	5	58	54	31	14
Nabuchodonosor	0	20	29	19	51
Alexandri	0	19	56	26	54
Cesaris	2	4	12	19	6
Incarnationis	0	47	23	57	19
Arabum	1	13	26	14	32
Persarum	2	12	7	36	18
Alphonsi	3	33	48	28	56

Tabula radicum augium Martis

	S	G	M	2	3
Diluvii	1	32	24	51	41
Nabuchodonosor	1	49	42	51	41
Alexandri	1	52	55	11	47
Cesaris	1	54	55	27	17
Incarnationis	1	55	12	13	4
Arabum	1	59	46	11	58
Persarum	1	59	50	34	24
Alphonsi	2	40	23	51	41

Tabula radicum Martis

	S	G	M	2	3
Diluvii	4	13	58	20	22
Nabuchodonosor	0	3	2	11	59
Alexandri	3	42	41	13	26
Cesaris	5	27	21	44	31
Incarnationis	0	41	27	29	44
Arabum	3	32	42	3	32
Persarum	5	11	55	23	5
Alphonsi	3	1	51	36	19

Tabula augis Saturni per motum 8e spere

	S	G	M	2	3
Diluvii	3	33	36	24	41
Nabuchodonosor	3	47	44	28	41
Alexandri	3	51	6	24	41
Cesaris	3	13	6	26	47
Incarnationis	3	13	23	42	[illegible]
Arabum	3	58	7	40	18
Persarum	3	58	2	3	24
Alphonsi	4	2	37	20	41

Tabula augis Mercurii per motum 8e spere

	S	G	M	2	3
Diluvii	2	47	12	17	41
Nabuchodonosor	3	1	10	19	41
Alexandri	3	8	22	27	47
Cesaris	3	10	22	4	57
Incarnationis	3	10	39	33	4
Arabum	3	17	13	31	58
Persarum	3	17	17	40	24
Alphonsi	3	19	57	11	41

Tabula revolucionis [illegible]

Numerus mensium	dies	horae	minuta	2a	3a	4a	5a
1	28	2	17	38	9	11	21
2	56	4	35	16	18	22	42
3	84	6	52	54	27	35	33
4	112	9	10	32	36	47	24
5	140	11	28	10	45	59	15
6	168	13	45	48	55	11	6
7	196	16	3	27	4	22	57
8	224	18	21	5	13	34	48
9	252	20	38	43	22	46	39
10	280	22	56	21	31	58	30
11	309	1	13	59	41	10	21
12	337	3	31	37	50	22	12
13	365	5	49	15	59	34	3

Tabula revolucionis annorum [illegible]

Anni	Gradus	minuta	2a	3a
1	87	19	6	0
2	174	38	12	0
3	261	57	18	0
4	349	16	24	0
5	76	35	30	0
6	163	54	36	0
7	251	13	42	0
8	336	32	48	0
9	65	51	54	0
10	153	11	0	0
11	240	30	6	0
12	327	49	12	0
13	55	8	18	0
14	142	27	24	0
15	229	46	30	0
16	317	5	36	0
17	44	24	42	0
18	131	43	48	0
19	219	2	54	0
20	306	22	0	0
40	252	44	0	0
60	199	6	0	0
80	145	28	0	0
100	91	50	0	0
200	183	40	0	0
300	275	30	0	0
400	7	20		0
500	99	10	0	0
600	191	0	0	0
700	282	50	0	0
800	14	40	0	0

Tabula revolucionis [illegible]

Anni	Horae	minuta	2a	3a
1	5	49	16	0
2	11	38	32	0
3	17	27	48	0
4	23	17	4	0
5	5	6	20	0
6	10	55	36	0
7	16	44	52	0
8	22	34	8	0
9	4	23	24	0
10	10	12	40	0
11	16	1	56	0
12	21	51	12	0
13	3	40	28	0
14	9	29	44	0
15	15	19	0	0
16	21	8	16	0
17	2	57	32	0
18	8	46	48	0
19	14	36	13	0
20	20	25	20	0
40	16	50	40	0
60	13	16	20	0
80	9	41	16	0
100	6	7	25	0
200	12	14	49	0
300	18	22	14	0
400	0	29	39	0
500	6	37	4	0
600	12	44	28	0
700	18	51	53	0
800	0	59	18	0

Tabula equacionis Motus accessus et recessus
Argumenti capitis Arietis seu octave spere

	Equaciones				Equaciones				Equaciones		
	G	M	2		G	M	2		G	M	2
1	0	9	25	31	4	37	17	61	7	52	49
2	0	18	49	32	4	41	18	62	7	57	19
3	0	28	11	33	4	53	14	63	8	0	41
4	0	37	32	34	5	1	5	64	8	4	56
5	0	46	52	35	5	8	51	65	8	9	2
6	0	56	12	36	5	16	30	66	8	13	58
7	1	5	32	37	5	24	4	67	8	16	42
8	1	14	56	38	5	31	33	68	8	20	23
9	1	24	4	39	5	38	57	69	8	23	52
10	1	33	20	40	5	46	16	70	8	27	12
11	1	42	34	41	5	53	27	71	8	30	23
12	1	51	46	42	6	0	29	72	8	33	29
13	2	0	57	43	6	7	26	73	8	36	55
14	2	10	6	44	6	14	17	74	8	38	56
15	2	19	13	45	6	21	22	75	8	41	28
16	2	28	17	46	6	27	40	76	8	43	50
17	2	37	16	47	6	34	10	77	8	46	2
18	2	46	11	48	6	40	37	78	8	48	5
19	2	55	20	49	6	46	49	79	8	49	54
20	3	3	49	50	6	52	58	80	8	51	44
21	3	12	41	51	6	59	0	81	8	53	19
22	3	21	36	52	7	4	53	82	8	54	41
23	3	30	20	53	7	10	38	83	8	55	51
24	3	38	57	54	7	16	15	84	8	57	0
25	3	47	27	55	7	21	44	85	8	57	55
26	3	55	54	56	7	27	7	86	8	58	40
27	4	4	17	57	7	32	21	87	8	59	15
28	4	12	38	58	7	37	27	88	8	59	40
29	4	20	55	59	7	42	33	89	8	59	55
30	4	29	10	60	7	47	17	90	8	0	0

Radix reducta ad annos 7 49 12 33 48 10 30 40

Tabula coniuncta Motus accessus et recessus octave spere

	1	2	3	4				
1	0	0	0	0	30	24	49	0
2	0	0	0	1	0	49	38	0
3	0	0	0	1	31	14	27	0
4	0	0	0	2	1	39	16	0
5	0	0	0	2	32	4	5	0
6	0	0	0	3	2	28	54	0
7	0	0	0	3	32	53	43	0
8	0	0	0	4	3	18	32	0
9	0	0	0	4	33	43	21	0
10	0	0	0	5	4	8	10	0
11	0	0	0	5	34	32	59	0
12	0	0	0	6	4	57	48	0
13	0	0	0	6	35	22	37	0
14	0	0	0	7	5	47	26	0
15	0	0	0	7	36	12	15	0
16	0	0	0	8	6	37	4	0
17	0	0	0	8	37	1	53	0
18	0	0	0	9	7	26	42	0
19	0	0	0	9	37	51	31	0
20	0	0	0	10	8	16	20	0
21	0	0	0	10	38	41	9	0
22	0	0	0	11	9	5	58	0
23	0	0	0	11	39	30	47	0
24	0	0	0	12	9	55	36	0
25	0	0	0	12	40	20	25	0
26	0	0	0	13	10	45	14	0
27	0	0	0	13	41	10	3	0
28	0	0	0	14	11	34	52	0
29	0	0	0	14	41	59	41	0
30	0	0	0	15	12	24	30	0

	1	2	3	4				
31	0	0	0	15	42	49	19	0
32	0	0	0	16	13	14	8	0
33	0	0	0	16	43	38	57	0
34	0	0	0	17	14	3	46	0
35	0	0	0	17	44	28	35	0
36	0	0	0	18	14	53	24	0
37	0	0	0	18	45	18	13	0
38	0	0	0	19	15	43	2	0
39	0	0	0	19	46	7	51	0
40	0	0	0	20	16	32	40	0
41	0	0	0	20	46	57	29	0
42	0	0	0	21	17	22	19	0
43	0	0	0	21	47	47	7	0
44	0	0	0	22	18	11	56	0
45	0	0	0	22	48	36	45	0
46	0	0	0	23	19	1	34	0
47	0	0	0	23	49	26	23	0
48	0	0	0	24	19	51	12	0
49	0	0	0	24	50	16	1	0
50	0	0	0	25	20	40	50	0
51	0	0	0	25	51	5	39	0
52	0	0	0	26	21	30	28	0
53	0	0	0	26	51	55	17	0
54	0	0	0	27	22	20	6	0
55	0	0	0	27	52	44	55	0
56	0	0	0	28	23	9	44	0
57	0	0	0	28	53	34	33	0
58	0	0	0	29	23	59	22	0
59	0	0	0	29	54	24	11	0
60	0	0	0	30	24	49	0	0

g	S	g	2	3
2	g	2	3	
3	2	3		
4	3			

g	S	g	2	3
2	g	2	3	
3	2	3		
4	3			

Radix non habet[ur] in ista tabula sed ponitur cum [illegible] 3 7 6 24 [illegible] intrat[e]

Tabula coniuncta Motus augium et stellarum fixarum

	1	2	3	4									1	2	3	4							
1	0	0	0	0	4	20	41	17	12	26	30	31	0	0	0	2	14	41	19	53	25	45	30
2	0	0	0	0	8	41	22	34	24	53	0	32	0	0	0	2	19	2	1	10	38	12	0
3	0	0	0	0	13	2	3	51	37	20	30	33	0	0	0	2	23	22	42	27	50	38	30
4	0	0	0	0	17	22	45	8	49	46	0	34	0	0	0	2	27	43	23	45	3	5	0
5	0	0	0	0	21	43	26	26	2	13	30	35	0	0	0	2	32	4	5	2	15	31	30
6	0	0	0	0	26	4	7	43	14	40	0	36	0	0	0	2	36	24	46	19	27	58	0
7	0	0	0	0	30	24	49	0	27	6	30	37	0	0	0	2	40	45	27	36	40	24	30
8	0	0	0	0	34	45	30	17	39	33	0	38	0	0	0	2	45	6	8	53	52	51	0
9	0	0	0	0	39	6	11	34	51	59	30	39	0	0	0	2	49	26	50	11	5	18	30
10	0	0	0	0	43	26	52	52	4	26	0	40	0	0	0	2	53	47	31	28	17	44	0
11	0	0	0	0	47	47	34	9	16	53	30	41	0	0	0	2	58	8	12	45	30	11	30
12	0	0	0	0	52	8	15	26	29	19	0	42	0	0	0	3	2	28	54	2	42	38	0
13	0	0	0	0	56	28	56	43	41	46	30	43	0	0	0	3	6	49	35	19	55	4	30
14	0	0	0	1	0	49	38	0	54	13	0	44	0	0	0	3	11	10	16	37	7	31	0
15	0	0	0	1	5	10	19	18	6	39	30	45	0	0	0	3	15	30	57	54	19	57	30
16	0	0	0	1	9	31	0	35	19	6	0	46	0	0	0	3	19	51	39	11	32	24	0
17	0	0	0	1	13	51	41	52	31	32	30	47	0	0	0	3	24	12	20	28	44	51	30
18	0	0	0	1	18	12	23	9	43	59	0	48	0	0	0	3	28	33	1	45	57	17	0
19	0	0	0	1	22	33	4	26	56	25	30	49	0	0	0	3	32	53	43	3	9	44	30
20	0	0	0	1	26	53	45	44	8	52	0	50	0	0	0	3	37	14	24	20	22	11	0
21	0	0	0	1	31	14	27	1	21	19	30	51	0	0	0	3	41	35	5	37	34	37	30
22	0	0	0	1	35	35	8	18	33	45	0	52	0	0	0	3	45	55	46	54	47	3	0
23	0	0	0	1	39	55	49	35	46	12	30	53	0	0	0	3	50	16	28	11	59	30	30
24	0	0	0	1	44	16	30	52	58	39	0	54	0	0	0	3	54	37	9	29	11	57	0
25	0	0	0	1	48	37	12	10	11	5	30	55	0	0	0	3	58	57	50	46	24	24	30
26	0	0	0	1	52	57	53	27	23	32	0	56	0	0	0	4	3	18	32	3	36	50	0
27	0	0	0	2	57	18	34	44	35	58	30	57	0	0	0	4	7	39	13	20	49	17	30
28	0	0	0	2	1	39	16	1	48	25	0	58	0	0	0	4	11	59	54	38	1	44	0
29	0	0	0	2	5	59	57	19	0	52	30	59	0	0	0	4	16	20	35	55	14	10	30
30	0	0	0	2	10	20	38	36	13	18	0	60	0	0	0	4	20	41	17	12	26	30	0

1	8	9	2	3
2	9	2	3	
3	2	3		
4	3			

1	8	9	2	3
2	9	2	3	
3	2	3		
4	3			

Radix Solis 4 38 11 21 36 30 17 39

Tabula [illegible] Medium Motum ipsius Solis

	1	2	3	4					
1	0	0	59	8	19	37	19	13	56
2	0	1	58	16	39	14	38	27	52
3	0	2	57	24	58	51	57	41	48
4	0	3	56	33	18	29	16	55	44
5	0	4	55	41	38	6	36	9	41
6	0	5	54	49	57	43	55	23	37
7	0	6	53	58	17	21	14	37	34
8	0	7	53	6	36	58	33	51	30
9	0	8	52	14	56	35	53	5	26
10	0	9	51	23	16	13	12	19	22
11	0	10	50	31	35	50	31	33	18
12	0	11	49	39	55	27	50	47	14
13	0	12	48	48	15	5	10	1	10
14	0	13	47	56	34	41	29	15	7
15	0	14	47	4	54	19	48	29	9
16	0	15	46	13	13	57	7	43	3
17	0	16	45	21	33	34	26	56	56
18	0	17	44	29	53	11	46	10	52
19	0	18	43	38	12	49	5	24	48
20	0	19	42	46	32	26	24	38	45
21	0	20	41	55	52	3	43	52	41
22	0	21	41	3	11	41	3	6	37
23	0	22	40	11	31	18	22	20	33
24	0	23	39	19	50	55	41	34	24
25	0	24	38	28	10	33	0	48	26
26	0	25	37	36	30	10	20	2	22
27	0	26	36	44	49	47	39	16	18
28	0	27	35	53	9	24	58	30	14
29	0	28	35	1	29	2	17	44	10
30	0	29	34	9	48	39	36	58	7

[illegible]	[illegible]	[illegible]	2	3
2	[illegible]	2	3	
3	2	3		
4	3			

	1	2	3	4					
31	0	30	33	18	8	16	56	12	3
32	0	31	32	26	27	54	15	26	0
33	0	32	31	34	47	31	34	39	56
34	0	33	30	43	7	8	53	53	52
35	0	34	29	51	26	46	13	7	48
36	0	35	28	59	46	23	32	21	44
37	0	36	28	8	6	0	51	35	40
38	0	37	27	16	25	38	10	49	36
39	0	38	26	24	45	15	30	3	32
40	0	39	25	33	4	52	49	17	29
41	0	40	24	41	24	30	8	31	25
42	0	41	23	49	44	7	27	45	21
43	0	42	22	58	3	44	46	59	18
44	0	43	22	6	23	22	6	13	14
45	0	44	21	14	42	59	25	27	10
46	0	45	20	23	2	36	44	41	6
47	0	46	19	31	22	14	3	55	3
48	0	47	18	39	41	51	23	8	59
49	0	48	17	48	1	28	42	22	55
50	0	49	16	56	21	6	1	36	51
51	0	50	16	4	40	43	20	50	47
52	0	51	15	13	0	20	40	4	44
53	0	52	14	21	19	57	59	18	40
54	0	53	13	29	39	35	18	32	36
55	0	54	12	37	59	12	37	46	32
56	0	55	11	46	18	49	57	0	29
57	0	56	10	54	38	27	16	14	25
58	0	57	10	2	58	4	35	28	21
59	0	58	9	11	17	41	54	42	17
60	0	59	8	19	37	19	13	56	13

[illegible]	[illegible]	[illegible]	2	3
2	[illegible]	2	3	
3	2	3		
4	3			

Radix lune arti lune 3 18 13 12 29 1 28 47

Tabula continens Medium Motum Argumenti Lune

	1	2	3	4					
1	0	13	3	53	57	29	21	4	13
2	0	26	7	47	55	0	42	8	26
3	0	39	11	41	52	30	3	11	39
4	0	52	15	35	50	1	24	16	52
5	1	5	19	29	47	31	45	21	5
6	1	18	23	23	45	2	6	25	18
7	1	31	27	27	42	32	27	29	31
8	1	44	31	11	40	2	48	33	44
9	1	57	35	5	37	33	9	37	57
10	2	10	38	59	35	3	30	42	10
11	2	23	42	53	32	33	51	46	23
12	2	36	46	47	30	4	11	50	36
13	2	49	50	41	27	34	33	54	49
14	3	2	54	35	25	40	54	59	2
15	3	15	58	29	22	35	15	3	15
16	3	29	2	23	20	5	37	7	28
17	3	42	6	17	17	35	58	11	41
18	3	55	10	11	15	6	19	15	54
19	4	8	14	5	12	36	49	20	7
20	4	21	17	59	10	7	1	24	20
21	4	34	21	53	7	37	22	28	33
22	4	47	25	47	5	7	43	32	46
23	5	0	29	41	2	38	4	36	59
24	5	13	33	35	0	8	25	41	12
25	5	26	37	28	57	38	46	45	25
26	5	39	41	22	55	9	7	49	38
27	5	52	45	16	52	39	28	53	51
28	6	5	49	10	50	9	49	58	4
29	6	18	53	4	47	40	10	2	17
30	6	31	56	58	45	10	32	6	30

	1	2	3	4					
31	6	45	0	52	42	40	53	10	43
32	6	58	4	46	40	11	14	14	56
33	7	11	8	40	37	41	35	19	9
34	7	24	12	34	35	11	56	23	22
35	7	37	16	28	32	42	17	27	35
36	7	50	20	22	30	12	38	31	48
37	8	3	24	16	27	43	59	36	1
38	8	16	28	10	25	13	20	40	14
39	8	29	32	4	22	43	41	44	27
40	8	42	35	58	20	14	2	48	40
41	8	55	39	52	17	44	23	52	53
42	9	8	43	46	15	14	44	57	6
43	9	21	47	40	12	45	6	1	19
44	9	34	51	34	10	15	27	5	32
45	9	47	55	28	7	45	48	9	45
46	10	0	59	22	5	16	9	13	58
47	10	14	3	16	2	46	30	18	11
48	10	27	7	10	0	16	51	22	24
49	10	40	11	3	57	47	12	26	37
50	10	53	14	57	55	17	33	30	50
51	11	6	18	51	52	47	54	35	3
52	11	19	22	45	50	18	15	39	16
53	11	32	26	39	47	48	36	43	29
54	11	45	30	33	45	18	57	47	42
55	11	58	34	27	42	49	18	51	55
56	12	11	38	21	40	19	39	56	8
57	12	24	42	15	37	50	1	0	21
58	12	37	46	9	35	20	22	4	34
59	12	50	50	3	32	50	43	8	47
60	13	3	53	57	30	21	4	13	0

m	g	m	2	3
2	m	2	3	
3	2	3		
4	3			

m	g	m	2	3
2	m	2	3	
3	2	3		
4	3			

Radix lune 2 1 59 34 10 35 9 20

Tabula cōtinens Medium Motum Lune

	1	2	3	4					
1	0	13	10	35	1	15	11	4	35
2	0	26	21	10	2	30	22	9	10
3	0	39	31	45	3	45	33	13	45
4	0	52	42	20	5	0	44	18	20
5	1	5	52	55	6	15	55	22	55
6	1	19	3	30	7	31	6	27	30
7	1	32	14	5	8	46	17	32	5
8	1	45	24	40	10	1	28	36	40
9	1	58	35	15	11	16	39	41	15
10	2	11	45	50	12	31	50	45	50
11	2	24	56	25	13	47	1	50	25
12	2	38	7	0	15	2	12	55	0
13	2	51	17	35	16	17	23	59	35
14	3	4	28	10	17	32	35	4	10
15	3	17	38	45	18	47	46	8	45
16	3	30	49	20	20	2	57	13	20
17	3	43	59	55	21	18	8	17	55
18	3	57	10	30	22	33	19	22	30
19	4	10	21	5	23	48	30	27	5
20	4	23	31	40	25	3	41	31	40
21	4	36	42	15	26	18	52	36	15
22	4	49	52	50	27	34	3	40	50
23	5	3	3	25	28	49	14	45	25
24	5	16	14	0	30	4	25	50	0
25	5	29	24	35	31	19	36	54	35
26	5	42	35	10	32	34	47	59	10
27	5	55	45	45	33	49	59	3	45
28	6	8	56	20	35	5	10	8	20
29	6	22	6	55	36	20	21	12	55
30	6	35	17	30	37	35	32	17	30

[illegible]	[illegible]	[illegible]	2	3
2	[illegible]	2	3	
3	2	3		
4	3			

	1	2	3	4					
31	6	48	28	5	38	50	43	22	5
32	7	1	38	40	40	5	54	26	48
33	7	14	49	15	41	21	5	31	15
34	7	27	59	50	42	36	16	35	50
35	7	41	10	25	43	51	27	40	25
36	7	54	21	0	45	6	38	45	0
37	8	7	31	35	46	21	49	49	35
38	8	20	42	10	47	37	0	54	10
39	8	33	52	45	48	52	11	58	45
40	8	47	3	20	50	7	23	3	20
41	9	0	13	55	51	22	34	7	55
42	9	13	24	30	52	37	45	12	30
43	9	26	35	5	53	52	56	17	5
44	9	39	45	40	55	8	7	21	40
45	9	52	56	15	56	23	18	26	15
46	10	6	6	50	57	38	29	30	50
47	10	19	17	25	58	53	40	35	25
48	10	32	28	1	0	8	51	40	0
49	10	45	38	36	1	24	2	44	35
50	10	58	49	11	2	39	13	49	10
51	11	11	59	46	3	54	24	53	45
52	11	25	10	21	5	9	35	58	20
53	11	38	20	56	6	24	47	2	55
54	11	51	31	31	7	39	58	7	30
55	12	4	42	6	8	55	9	12	5
56	12	17	52	41	10	10	20	16	40
57	12	31	3	16	11	25	31	21	15
58	12	44	13	51	12	40	42	25	50
59	12	57	24	26	13	55	53	30	25
60	13	10	35	1	15	11	4	35	0

[illegible]	[illegible]	[illegible]	3	[illegible]
2	[illegible]	2	3	
3	2	3		
4	3			

Radix circuli huius tabule 3 33 55 5 25 17 51 15

Tabula continens medium motum digiti latitudinis lune

	1	2	3	4					
1	0	13	13	45	39	22	25	53	45
2	0	26	27	31	18	44	51	47	30
3	0	39	41	16	58	7	17	41	15
4	0	52	55	2	37	29	43	35	0
5	1	6	8	48	16	52	9	28	45
6	1	19	22	33	56	14	35	22	30
7	1	32	36	19	35	37	1	16	15
8	1	45	50	5	14	59	27	10	0
9	1	59	3	50	54	21	53	3	45
10	2	12	17	36	33	44	18	57	30
11	2	25	31	22	13	6	44	51	15
12	2	38	45	7	52	29	10	45	0
13	2	51	58	53	31	51	36	38	45
14	3	5	12	39	11	14	2	32	30
15	3	18	26	24	50	36	28	26	15
16	3	31	40	10	29	58	54	20	1
17	3	44	53	56	9	21	20	9	45
18	3	58	7	41	48	43	46	7	30
19	4	11	21	27	28	6	12	1	15
20	4	24	35	13	7	28	37	55	0
21	4	37	48	58	46	51	3	48	45
22	4	51	2	44	26	13	29	42	30
23	5	4	16	30	5	35	55	36	15
24	5	17	30	15	44	58	21	30	0
25	5	30	44	1	24	20	47	23	45
26	5	43	57	47	3	43	13	17	30
27	5	57	11	32	43	5	39	11	15
28	6	10	25	18	22	28	5	5	0
29	6	23	39	4	1	50	30	58	45
30	6	36	22	44	41	12	56	52	30

sg	9	9	2	3
2	9	2	3	
3	2	3		
4	3			

	1	2	3	4					
31	6	50	6	35	20	35	22	46	15
32	7	3	20	20	59	57	48	40	0
33	7	16	34	6	39	20	14	33	45
34	7	29	47	52	18	42	40	27	30
35	7	43	1	37	58	5	6	21	15
36	7	56	15	23	37	27	32	15	0
37	8	9	29	9	16	49	58	8	45
38	8	22	42	54	56	12	24	2	30
39	8	35	56	40	35	34	49	56	15
40	8	49	10	26	14	57	15	50	0
41	9	2	24	11	54	19	41	43	45
42	9	15	37	57	33	42	7	37	30
43	9	28	51	43	13	4	33	31	15
44	9	42	5	28	52	26	59	25	0
45	9	55	19	14	31	49	25	18	45
46	10	8	33	0	11	11	51	12	30
47	10	21	46	45	50	34	17	6	15
48	10	35	0	31	29	56	43	0	0
49	10	48	14	17	9	19	8	53	45
50	11	1	28	2	48	41	34	47	30
51	11	14	41	48	28	4	0	41	15
52	11	27	55	34	7	26	26	35	0
53	11	41	9	19	46	48	52	28	45
54	11	54	23	5	26	11	18	22	30
55	12	7	36	51	5	33	44	16	15
56	12	20	50	36	44	56	10	10	0
57	12	34	4	22	24	18	36	3	45
58	12	47	18	8	3	41	1	57	30
59	13	0	31	53	43	3	27	51	15
60	13	13	45	39	22	25	53	45	0

sg	9	9	2	3
2	9	2	3	
3	2	3		
4	3			

Tabula continens Medium Motum Capitis Draconis

	1	2	3	4					
1	0	0	3	10	38	7	14	49	10
2	0	0	6	21	16	14	29	38	20
3	0	0	9	31	54	21	44	27	30
4	0	0	12	42	32	28	59	16	40
5	0	0	15	53	10	36	14	5	50
6	0	0	19	3	48	43	28	55	0
7	0	0	22	14	26	50	43	44	10
8	0	0	25	25	4	57	58	33	20
9	0	0	28	35	43	5	13	22	30
10	0	0	31	46	21	12	28	11	40
11	0	0	34	56	59	19	43	0	50
12	0	0	38	7	37	26	57	50	0
13	0	0	41	18	15	34	12	39	10
14	0	0	44	28	53	41	27	28	20
15	0	0	47	39	31	48	42	17	30
16	0	0	50	50	9	55	57	6	40
17	0	0	54	0	48	3	11	55	50
18	0	0	57	11	26	10	26	45	0
19	0	1	0	22	4	17	41	34	10
20	0	1	3	32	42	24	56	23	20
21	0	1	6	43	20	32	11	12	30
22	0	1	9	53	58	39	26	11	40
23	0	1	13	4	36	46	40	50	50
24	0	1	16	15	14	13	55	40	0
25	0	1	19	25	53	1	10	29	10
26	0	1	22	36	31	8	25	18	20
27	0	1	25	47	9	15	40	7	30
28	0	1	28	57	47	22	54	56	40
29	0	1	32	8	25	30	9	45	50
30	0	1	35	19	3	37	24	35	0

	1	2	3	4					
31	0	1	38	29	41	44	39	24	10
32	0	1	41	40	19	51	54	13	20
33	0	1	44	50	57	59	9	2	30
34	0	1	48	1	36	6	23	51	40
35	0	1	51	12	14	13	38	40	50
36	0	1	54	22	52	20	53	30	0
37	0	1	57	33	30	28	8	19	10
38	0	2	0	44	8	35	23	8	20
39	0	2	3	54	46	42	37	57	30
40	0	2	7	5	24	49	52	46	40
41	0	2	10	16	2	57	7	35	50
42	0	2	13	26	41	4	22	25	0
43	0	2	16	37	19	11	37	14	10
44	0	2	19	47	57	18	52	3	20
45	0	2	22	58	35	26	6	52	30
46	0	2	26	9	13	33	21	41	40
47	0	2	29	19	51	40	36	30	50
48	0	2	32	30	29	47	51	20	0
49	0	2	35	41	7	55	6	9	10
50	0	2	38	51	46	2	20	58	20
51	0	2	42	2	24	9	35	47	30
52	0	2	45	13	2	16	50	36	40
53	0	2	48	23	40	24	5	25	50
54	0	2	51	34	18	31	20	15	0
55	0	2	54	44	56	38	35	4	10
56	0	2	57	55	34	45	49	53	2
57	0	3	1	6	12	53	4	42	30
58	0	3	4	16	51	0	19	31	40
59	0	3	7	27	29	7	34	20	50
60	0	3	10	38	7	14	49	10	0

9	9	9	2	3
2	9	2	3	
3	2	3		
4	3			

9	9	9	2	3
2	9	2	3	
3	2	3		
4	3			

16 33 54 1 42

Tabula continens Medium Motum elongationis Lune a Sole

	1	2	3	4					
1	0	12	11	26	41	37	51	50	39
2	0	24	22	53	23	15	43	41	18
3	0	36	34	20	4	53	35	31	57
4	0	48	45	46	46	31	27	22	36
5	1	0	57	13	28	9	19	13	14
6	1	13	8	40	9	47	11	3	53
7	1	25	20	6	51	25	2	54	31
8	1	37	31	33	33	2	54	45	17
9	1	49	43	0	14	40	46	35	44
10	2	1	54	26	56	18	38	26	28
11	2	14	5	53	37	56	30	17	7
12	2	26	17	20	19	34	22	7	47
13	2	38	28	47	1	12	13	58	24
14	2	50	40	13	42	50	5	44	3
15	3	2	51	40	24	27	47	39	42
16	3	15	3	7	6	5	44	30	20
17	3	27	14	33	47	43	41	20	54
18	3	39	26	0	29	21	33	11	38
19	3	51	37	27	10	59	21	2	17
20	4	3	48	53	52	3	[illegible]	22	55
21	4	16	0	20	34	15	8	43	39
22	4	28	11	47	15	53	0	34	13
23	4	40	23	13	57	30	52	24	52
24	4	52	34	40	39	8	44	15	31
25	5	4	46	7	20	46	36	6	10
26	5	16	57	33	2	24	27	56	48
27	5	29	9	0	43	2	19	47	27
28	5	41	20	27	25	40	11	38	6
29	5	53	31	54	7	18	3	28	44
30	6	5	43	20	48	56	55	19	23
31	6	17	54	47	30	33	47	10	9
32	6	30	6	14	12	11	39	0	48
33	6	42	17	40	53	49	30	51	27
34	6	54	29	7	35	27	22	42	6
35	7	6	40	34	17	5	14	32	45
36	7	18	52	0	58	43	6	23	24
37	7	31	3	27	40	20	58	14	3
38	7	43	14	54	21	58	50	4	42
39	7	55	26	21	3	36	41	55	21
40	8	7	37	47	45	14	33	46	0
41	8	19	49	14	26	52	21	36	39
42	8	32	0	41	8	30	17	27	18
43	8	44	12	7	50	8	9	19	57
44	8	56	23	34	31	46	0	8	36
45	9	8	35	1	13	24	52	59	15
46	9	20	46	27	55	1	44	49	54
47	9	32	57	54	36	39	36	40	33
48	9	45	9	21	18	17	28	31	12
49	9	57	20	47	59	55	20	21	51
50	10	9	32	14	41	33	12	13	30
51	10	21	43	41	23	11	4	3	4
52	10	33	55	8	4	48	55	53	48
53	10	46	6	34	46	26	47	44	27
54	10	58	18	1	28	4	39	55	6
55	11	10	29	28	9	42	33	25	41
56	11	22	40	54	51	20	23	16	24
57	11	34	52	21	32	58	17	7	13
58	11	47	3	48	14	36	6	57	42
59	11	59	15	14	55	13	58	48	21
60	12	11	26	41	37	51	50	39	0

o9	9	o9	2	3
2	o9	2	3	
3	2	3		
4	3			

o9	9	o9	2	3
2	o9	2	3	
3	2	3		
4	3			

Tabula continens Medium Motum Saturni

	1	2	3	4					
1	0	0	2	0	35	17	40	21	0
2	0	0	4	1	10	35	20	42	0
3	0	0	6	1	45	53	1	3	0
4	0	0	8	2	21	10	41	24	0
5	0	0	10	2	56	28	21	45	0
6	0	0	12	3	31	46	2	6	0
7	0	0	14	4	7	3	42	27	0
8	0	0	16	4	42	21	22	48	0
9	0	0	18	5	17	38	3	9	0
10	0	0	20	5	52	56	43	30	0
11	0	0	22	6	28	14	23	51	0
12	0	0	24	7	3	32	4	12	0
13	0	0	26	7	38	49	44	33	0
14	0	0	28	8	14	7	24	54	0
15	0	0	30	8	49	25	5	15	0
16	0	0	32	9	24	42	45	36	0
17	0	0	34	10	0	0	25	57	0
18	0	0	36	10	35	18	6	18	0
19	0	0	38	11	10	35	46	39	0
20	0	0	40	11	45	53	27	0	0
21	0	0	42	12	21	11	7	21	0
22	0	0	44	12	56	28	47	42	0
23	0	0	46	13	31	46	28	3	0
24	0	0	48	14	7	4	8	24	0
25	0	0	50	14	42	21	48	45	0
26	0	0	52	15	17	39	29	6	0
27	0	0	54	15	52	56	9	27	0
28	0	0	56	16	28	14	49	48	0
29	0	0	58	17	3	32	30	9	0
30	0	1	0	17	38	49	10	30	0

	1	2	3	4					
31	0	1	2	18	14	7	50	51	0
32	0	1	4	18	49	25	31	12	0
33	0	1	6	19	24	43	11	33	0
34	0	1	8	20	0	0	51	54	0
35	0	1	10	20	35	18	32	15	0
36	0	1	12	21	10	36	12	36	0
37	0	1	14	21	45	53	52	57	0
38	0	1	16	22	21	11	33	18	0
39	0	1	18	22	56	29	13	39	0
40	0	1	20	23	31	46	54	0	0
41	0	1	22	24	7	4	34	21	0
42	0	1	24	24	42	22	14	42	0
43	0	1	26	25	17	39	55	3	0
44	0	1	28	25	52	57	35	24	0
45	0	1	30	26	28	15	15	45	0
46	0	1	32	27	3	32	56	6	0
47	0	1	34	27	38	50	36	27	0
48	0	1	36	28	14	8	16	48	0
49	0	1	38	28	49	25	57	9	0
50	0	1	40	29	24	43	37	30	0
51	0	1	42	30	0	1	17	51	0
52	0	1	44	30	35	18	58	12	0
53	0	1	46	31	10	36	38	33	0
54	0	1	48	31	45	53	18	54	0
55	0	1	50	32	21	11	59	15	0
56	0	1	52	32	56	29	39	36	0
57	0	1	54	33	31	47	19	57	0
58	0	1	56	34	7	5	0	18	0
59	0	1	58	34	42	22	40	39	0
60	0	2	0	35	17	40	21	0	0

sig	g	m	2	3
2	m	2	3	
3	2	3		
4	3			

sig	g	m	2	3
2	m	2	3	
3	2	3		
4	3			

Radix Jovis Christi 3 0 37 2 46 50 22 22

Tabula continens Medium Motum Jovis

	1	2	3	4					
1	0	0	4	59	15	27	7	23	50
2	0	0	9	58	30	54	14	47	40
3	0	0	14	57	46	21	22	11	30
4	0	0	19	57	1	48	29	35	20
5	0	0	24	56	17	15	36	59	10
6	0	0	29	55	32	42	44	22	0
7	0	0	34	54	48	9	51	46	50
8	0	0	39	54	3	36	59	10	40
9	0	0	44	53	19	4	6	34	30
10	0	0	49	52	34	31	13	58	20
11	0	0	54	51	49	58	21	22	10
12	0	0	59	51	5	25	28	46	0
13	0	1	4	50	20	52	36	9	50
14	0	1	9	49	36	19	43	33	40
15	0	1	14	48	51	46	50	57	30
16	0	1	19	48	7	13	58	21	20
17	0	1	24	47	22	41	5	45	10
18	0	1	29	46	38	8	13	9	0
19	0	1	34	45	53	35	20	32	50
20	0	1	39	45	9	2	27	56	40
21	0	1	44	44	24	29	35	20	30
22	0	1	49	43	39	56	42	44	20
23	0	1	54	42	55	23	50	8	10
24	0	1	59	42	10	50	57	32	0
25	0	2	4	41	26	18	4	55	50
26	0	2	9	40	41	45	12	19	40
27	0	2	14	39	57	12	19	43	30
28	0	2	19	39	12	39	27	7	20
29	0	2	24	38	28	6	34	31	10
30	0	2	29	37	43	33	41	55	0
31	0	2	34	36	59	0	49	18	50
32	0	2	39	36	14	27	56	42	40
33	0	2	44	35	29	55	4	6	30
34	0	2	49	34	45	22	11	30	20
35	0	2	54	34	0	49	18	54	10
36	0	2	59	33	16	16	26	18	0
37	0	3	4	32	31	43	33	41	50
38	0	3	9	31	47	10	41	5	40
39	0	3	14	31	2	37	48	29	30
40	0	3	19	30	18	4	55	53	20
41	0	3	24	29	33	32	2	17	10
42	0	3	29	28	48	59	10	41	0
43	0	3	34	28	4	26	18	4	50
44	0	3	39	27	19	53	25	28	40
45	0	3	44	26	35	20	32	52	30
46	0	3	49	25	50	47	40	16	20
47	0	3	54	25	6	14	47	40	10
48	0	3	59	24	21	41	55	4	0
49	0	4	4	23	37	9	2	27	50
50	0	4	9	22	52	36	9	51	40
51	0	4	14	22	8	3	17	15	30
52	0	4	19	21	23	30	24	39	20
53	0	4	24	20	38	57	32	3	10
54	0	4	29	19	54	24	39	27	0
55	0	4	34	19	9	51	46	50	50
56	0	4	39	18	25	18	54	14	40
57	0	4	44	17	40	46	0	38	30
58	0	4	49	16	56	13	9	2	20
59	0	4	54	16	11	40	16	26	10
60	0	4	59	15	27	7	23	50	0

09	9	09	2	3
2	19	2	3	
3	2	3		
4	3			

09	8	09	2	3
2	09	2	3	
3	2	3		
4	3			

Radix Martis 0 40 23 36 32 4 41 42

Tabula continens Medium Motum Martis

	1	2	3	4					
1	0	0	31	26	38	40	5	0	0
2	0	1	2	53	17	20	10	0	0
3	0	1	34	19	56	0	15	0	0
4	0	2	5	46	34	40	20	0	0
5	0	2	37	13	13	20	25	0	0
6	0	3	8	39	52	0	30	0	0
7	0	3	40	6	30	40	35	0	0
8	0	4	11	33	9	20	40	0	0
9	0	4	42	59	48	0	45	0	0
10	0	5	14	26	26	40	50	0	0
11	0	5	45	53	5	20	55	0	0
12	0	6	17	19	44	1	0	0	0
13	0	6	48	46	22	41	5	0	0
14	0	7	20	13	1	21	10	0	0
15	0	7	51	39	40	1	15	0	0
16	0	8	23	6	18	41	20	0	0
17	0	8	54	32	57	21	25	0	0
18	0	9	25	59	36	0	30	0	0
19	0	9	57	26	14	41	35	0	0
20	0	10	28	52	53	21	40	0	0
21	0	11	0	19	32	1	45	0	0
22	0	11	31	46	10	41	50	0	0
23	0	12	3	12	49	21	55	0	0
24	0	12	34	39	28	2	0	0	0
25	0	13	6	6	6	42	5	0	0
26	0	13	37	33	45	22	10	0	0
27	0	14	8	59	24	2	15	0	0
28	0	14	40	26	2	42	20	0	0
29	0	15	11	52	41	22	25	0	0
30	0	15	43	19	20	2	30	0	0

	1	2	3	4					
31	0	16	14	45	58	42	35	0	0
32	0	16	46	12	37	22	40	0	0
33	0	17	17	39	16	2	45	0	0
34	0	17	49	5	54	42	50	0	0
35	0	18	20	33	33	22	55	0	0
36	0	18	51	59	12	3	0	0	0
37	0	19	23	25	50	43	5	0	0
38	0	19	54	52	29	23	10	0	0
39	0	20	26	19	8	3	15	0	0
40	0	20	57	45	46	43	20	0	0
41	0	21	29	12	25	23	25	0	0
42	0	22	0	39	4	3	30	0	0
43	0	22	32	5	42	43	35	0	0
44	0	23	3	32	21	23	40	0	0
45	0	23	34	59	0	3	45	0	0
46	0	24	6	25	38	43	50	0	0
47	0	24	37	52	17	23	55	0	0
48	0	25	9	18	56	4	0		0 0
49	0	25	40	45	34	44	5	0	0
50	0	26	12	12	13	24	10	0	0
51	0	26	43	38	52	4	15	0	0
52	0	27	15	5	30	44	20	0	0
53	0	27	46	32	9	24	25	0	0
54	0	28	17	58	48	4	30	0	0
55	0	28	49	25	26	44	35	0	0
56	0	29	20	52	5	24	40	0	0
57	0	29	52	18	44	4	45	0	0
58	0	30	23	45	22	44	50	0	0
59	0	30	55	12	1	24	55	0	0
60	0	31	26	38	40	5	0	0	0

26

4	9	4	2	3
2	4	2	3	
3	2	3		
4	3			

4	9	4	2	3
2	4	2	3	
3	2	3		
4	3			

Radix [illegible] 2 9 19 49 24 [illegible] 21 38

Tabula continuus Motuum Argumenti veneris

	1	2	3	4					
1	0	0	36	59	27	23	59	31	0
2	0	1	13	58	54	47	59	2	0
3	0	1	50	58	22	11	28	33	0
4	0	2	27	57	49	35	58	4	0
5	0	3	4	57	16	59	27	35	0
6	0	3	41	56	44	23	57	6	0
7	0	4	18	56	11	47	26	37	0
8	0	4	55	55	39	11	56	8	0
9	0	5	32	55	6	35	25	39	0
10	0	6	9	54	33	59	55	10	0
11	0	6	46	54	1	23	24	41	0
12	0	7	23	53	28	47	54	12	0
13	0	8	0	52	56	11	23	43	0
14	0	8	37	52	23	35	53	14	0
15	0	9	14	51	50	59	22	45	0
16	0	9	51	51	18	23	52	16	0
17	0	10	28	50	45	47	21	47	0
18	0	11	5	50	13	11	51	18	0
19	0	11	42	49	40	35	20	49	0
20	0	12	19	49	7	59	50	20	0
21	0	12	56	48	35	23	19	51	0
22	0	13	33	48	2	47	49	22	0
23	0	14	10	47	30	11	18	53	0
24	0	14	47	46	57	35	48	24	0
25	0	15	24	46	24	59	17	55	0
26	0	16	1	45	52	23	47	26	0
27	0	16	38	45	19	47	16	57	0
28	0	17	15	44	47	11	46	28	0
29	0	17	52	44	14	35	15	59	0
30	0	18	29	43	41	59	45	30	0

	1	2	3	4					
31	0	19	6	43	9	23	45	1	0
32	0	19	43	42	36	47	44	32	0
33	0	20	20	42	4	11	14	3	0
34	0	20	57	41	31	35	43	34	0
35	0	21	34	40	58	59	13	5	0
36	0	22	11	40	26	23	42	36	0
37	0	22	48	39	53	47	12	7	0
38	0	23	25	39	21	11	41	38	0
39	0	24	2	38	48	35	11	9	0
40	0	24	39	38	15	59	40	40	0
41	0	25	16	37	43	23	10	11	0
42	0	25	53	37	10	47	39	42	0
43	0	26	30	36	38	11	9	13	0
44	0	27	7	36	5	35	38	44	0
45	0	27	44	35	32	59	8	15	0
46	0	28	21	35	0	23	37	46	0
47	0	28	58	34	27	47	7	17	0
48	0	29	35	33	55	11	36	48	0
49	0	30	12	33	22	35	6	19	0
50	0	30	49	32	49	59	35	50	0
51	0	31	26	32	17	23	5	21	0
52	0	32	3	31	44	47	34	52	0
53	0	32	40	31	12	11	4	23	0
54	0	33	17	30	39	35	33	54	0
55	0	33	54	30	6	59	3	25	0
56	0	34	31	29	34	23	32	56	0
57	0	35	8	29	1	47	2	27	0
58	0	35	45	28	29	11	31	58	0
59	0	36	22	27	56	35	1	29	0
60	0	36	59	27	23	59	31	0	0

[illegible]	5	4	2	3
2	4	2	3	
3	2	3		
4	3			

[illegible]	5	4	2	3
2	4	2	3	
3	2	3		
4	3			

Radix eius 0 45 12 46 56 8 19 21

Tabula continens Motum Argumenti Mercurii

	1	2	3	4					
1	0	3	6	24	7	42	40	52	0
2	0	6	12	48	15	25	21	44	0
3	0	9	19	12	23	8	2	36	0
4	0	12	25	36	30	50	43	28	0
5	0	15	32	0	38	33	24	20	0
6	0	18	38	24	46	16	5	12	0
7	0	21	44	48	53	58	46	4	0
8	0	24	51	13	1	41	26	56	0
9	0	27	57	37	9	24	7	48	0
10	0	31	4	1	17	6	48	40	0
11	0	34	10	25	24	49	29	32	0
12	0	37	16	49	32	32	10	24	0
13	0	40	23	13	40	14	51	16	0
14	0	43	29	37	47	57	32	8	0
15	0	46	36	1	55	40	13	0	0
16	0	49	42	26	3	22	53	52	0
17	0	52	48	50	11	5	34	44	0
18	0	55	55	14	18	48	15	36	0
19	0	59	1	38	26	30	56	28	0
20	1	2	8	2	34	13	37	20	0
21	1	5	14	26	41	56	18	12	0
22	1	8	20	50	49	38	59	4	0
23	1	11	27	14	57	21	39	56	0
24	1	14	33	39	5	4	20	48	0
25	1	17	40	3	12	47	1	40	0
26	1	20	46	27	20	29	42	32	0
27	1	23	52	51	28	12	23	24	0
28	1	26	59	15	35	55	4	16	0
29	1	30	5	39	43	37	45	8	0
30	1	33	12	3	51	20	26	0	0

	1	2	3	4					
31	1	36	18	27	59	3	6	52	0
32	1	39	24	52	6	45	47	44	0
33	1	42	31	16	14	28	28	36	0
34	1	45	37	40	22	11	9	28	0
35	1	48	44	4	29	53	50	20	0
36	1	51	50	28	37	36	31	12	0
37	1	54	56	52	45	19	12	4	0
38	1	58	3	16	53	1	52	56	0
39	2	1	9	41	0	44	33	48	0
40	2	4	16	5	8	27	14	40	0
41	2	7	22	29	16	9	55	32	0
42	2	10	28	53	23	52	36	24	0
43	2	13	35	17	31	35	17	16	0
44	2	16	41	41	39	17	58	8	0
45	2	19	48	5	47	0	39	0	0
46	2	22	54	29	54	43	19	52	0
47	2	26	0	54	2	26	0	44	0
48	2	29	7	18	10	8	41	36	0
49	2	32	13	42	17	51	22	28	0
50	2	35	20	6	25	34	3	20	0
51	2	38	26	30	33	16	44	12	0
52	2	41	32	54	40	59	25	4	0
53	2	44	39	18	48	42	5	56	0
54	2	47	45	42	56	24	46	48	0
55	2	50	52	7	4	7	27	40	0
56	2	53	58	31	11	50	8	32	0
57	2	57	4	55	19	32	49	24	0
58	3	0	11	19	27	15	30	16	0
59	3	3	17	43	34	58	11	8	0
60	3	6	24	7	42	40	52	0	0

g	S	g	2	3
2	g	2	3	
3	2	3		
4	3			

g	S	g	2	3
2	g	2	3	
3	2	3		
4	3			

Tabula equacionis Solis prima

linee numeri communes				Equacio Solis			linee numeri communes				Equacio Solis			linee numeri communes				Equacio Solis		
S	G	S	G	S	G	M	S	G	S	G	S	G	M	S	G	S	G	S	G	M
0	1	5	59	0	2	10	0	31	5	29	1	4	46	1	1	4	59	1	51	51
0	2	5	58	0	4	19	0	32	5	28	1	6	37	1	2	4	58	1	52	56
0	3	5	57	0	6	27	0	33	5	27	1	8	28	1	3	4	57	1	54	0
0	4	5	56	0	8	36	0	34	5	26	1	10	19	1	4	4	56	1	55	6
0	5	5	55	0	10	44	0	35	5	25	1	12	9	1	5	4	55	1	56	4
0	6	5	54	0	12	53	0	36	5	24	1	13	56	1	6	4	54	1	57	11
0	7	5	53	0	15	2	0	37	5	23	1	15	41	1	7	4	53	1	58	2
0	8	5	52	0	17	10	0	38	5	22	1	17	24	1	8	4	52	1	58	52
0	9	5	51	0	19	19	0	39	5	21	1	19	6	1	9	4	51	1	59	41
0	10	5	50	0	21	28	0	40	5	20	1	20	48	1	10	4	50	2	0	29
0	11	5	49	0	23	36	0	41	5	19	1	22	29	1	11	4	49	2	1	16
0	12	5	48	0	25	45	0	42	5	18	1	24	10	1	12	4	48	2	2	2
0	13	5	47	0	27	53	0	43	5	17	1	25	50	1	13	4	47	2	2	42
0	14	5	46	0	30	1	0	44	5	16	1	27	29	1	14	4	46	2	3	21
0	15	5	45	0	32	8	0	45	5	15	1	29	8	1	15	4	45	2	3	59
0	16	5	44	0	34	16	0	46	5	14	1	30	46	1	16	4	44	2	4	36
0	17	5	43	0	36	23	0	47	5	13	1	32	23	1	17	4	43	2	5	16
0	18	5	42	0	38	30	0	48	5	12	1	33	59	1	18	4	42	2	5	48
0	19	5	41	0	40	37	0	49	5	11	1	35	30	1	19	4	41	2	6	17
0	20	5	40	0	42	43	0	50	5	10	1	37	0	1	20	4	40	2	6	47
0	21	5	39	0	44	49	0	51	5	9	1	38	30	1	21	4	39	2	7	15
0	22	5	38	0	46	55	0	52	5	8	1	39	58	1	22	4	38	2	7	37
0	23	5	37	0	48	54	0	53	5	7	1	41	27	1	23	4	37	2	8	2
0	24	5	36	0	51	4	0	54	5	6	1	42	54	1	24	4	36	2	8	27
0	25	5	35	0	53	4	0	55	5	5	1	44	19	1	25	4	35	2	8	45
0	26	5	34	0	55	2	0	56	5	4	1	45	34	1	26	4	34	2	9	1
0	27	5	33	0	57	1	0	57	5	3	1	46	53	1	27	4	33	2	9	17
0	28	5	32	0	58	59	0	58	5	2	1	48	10	1	28	4	32	2	9	32
0	29	5	31	0	0	57	0	59	5	1	1	49	28	1	29	4	31	2	9	45
0	30	5	30	0	2	54	1	0	5	0	1	50	44	1	30	4	30	2	9	57

Tabula equacionis Solis secunda

linee mie communes		Equacio Solis					linee communes		Equacio Solis					linee communes		Equacio Solis				
S	G	S	G	S	G	M	S	G	S	G	S	G	M	S	G	S	G	S	G	M
1	31	4	29	2	9	59	2	1	3	59	1	53	46	2	31	3	29	0	5	1
1	32	4	28	2	10	0	2	2	3	58	1	52	35	2	32	3	28	0	2	54
1	33	4	27	2	10	0	2	3	3	57	1	51	24	2	33	3	27	0	0	57
1	34	4	26	2	10	0	2	4	3	56	1	50	12	2	34	3	26	0	58	40
1	35	4	25	2	9	55	2	5	3	55	1	48	59	2	35	3	25	0	56	33
1	36	4	24	2	9	51	2	6	3	54	1	47	46	2	36	3	24	0	54	27
1	37	4	23	2	9	35	2	7	3	53	1	46	29	2	37	3	23	0	52	19
1	38	4	22	2	9	27	2	8	3	52	1	44	53	2	38	3	22	0	50	9
1	39	4	21	2	8	[illegible]	2	9	3	51	1	43	56	2	39	3	21	0	48	1
1	40	4	20	2	8	[illegible]	2	10	3	50	1	41	59	2	40	3	20	0	45	43
1	41	4	19	2	8	[illegible]	2	11	3	49	1	40	29	2	41	3	19	0	43	44
1	42	4	18	2	8	4	2	12	3	48	1	38	59	2	42	3	18	0	41	35
1	43	4	17	2	7	41	2	13	3	47	1	37	25	2	43	3	17	0	39	26
1	44	4	16	2	7	[illegible]	2	14	3	46	1	35	53	2	44	3	16	0	37	16
1	45	4	15	2	6	46	2	15	3	45	1	34	20	2	45	3	15	0	35	6
1	46	4	14	2	6	18	2	16	3	44	1	32	46	2	46	3	14	0	32	51
1	47	4	13	2	5	48	2	17	3	43	1	31	12	2	47	3	13	0	30	35
1	48	4	12	2	5	18	2	18	3	42	1	29	33	2	48	3	12	0	28	19
1	49	4	11	2	4	42	2	19	3	41	1	27	50	2	49	3	11	0	26	1
1	50	4	10	2	4	7	2	20	3	40	1	26	3	2	50	3	10	0	23	42
1	51	4	9	2	3	27	2	21	3	39	1	24	16	2	51	3	9	0	21	22
1	52	4	8	2	2	37	2	22	3	38	1	22	28	2	52	3	8	0	19	1
1	53	4	7	2	1	45	2	23	3	37	1	20	40	2	53	3	7	0	16	40
1	54	4	6	2	0	51	2	24	3	36	1	18	51	2	54	3	6	0	14	19
1	55	4	5	1	59	53	2	25	3	35	1	17	0	2	55	3	5	0	11	58
1	56	4	4	1	58	55	2	26	3	34	1	15	8	2	56	3	4	0	9	36
1	57	4	3	1	57	57	2	27	3	33	1	13	16	2	57	3	3	0	7	12
1	58	4	2	1	56	57	2	28	3	32	1	11	53	2	58	3	2	0	4	48
1	59	4	1	1	55	57	2	29	3	31	1	9	10	2	59	3	1	0	2	24
1	0	4	0	1	59	57	2	30	3	30	1	7	7	3	0	3	0	0	0	0

Tabula equacionis lune prima

Lune etas communes				Equacio centri		Minuta proporcionalia	Diversitas dyametri		Equacio argumenti		
S	D	H	M	S	G	M	S	M	S	G	M
0	1	5	59	0	9	0	0	3	0	4	46
0	2	5	58	0	18	0	0	5	0	9	31
0	3	5	57	0	27	0	0	7	0	14	15
0	4	5	56	0	36	0	0	10	0	19	0
0	5	5	55	0	45	0	0	11	0	23	44
0	6	5	54	0	53	0	0	4	0	28	28
0	7	5	53	1	2	0	0	17	0	33	11
0	8	5	52	1	11	0	0	19	0	37	54
0	9	5	51	1	20	0	0	2[illegible]	0	42	37
0	10	5	50	1	29	0	0	24	0	47	19
0	11	5	49	1	38	0	0	26	0	52	0
0	12	5	48	1	46	1	0	28	0	56	41
0	13	5	47	1	55	1	0	31	1	1	20
0	14	5	46	2	4	1	0	33	1	5	59
0	15	5	45	2	13	1	0	35	1	10	37
0	16	5	44	2	22	1	0	38	1	15	15
0	17	5	43	2	31	1	0	40	1	19	51
0	18	5	42	2	39	1	0	42	1	24	27
0	19	5	41	2	48	1	0	45	1	29	0
0	20	5	40	2	57	2	0	47	1	33	32
0	21	5	39	3	5	2	0	49	1	38	3
0	22	5	38	3	14	2	0	52	1	42	33
0	23	5	37	3	23	2	0	54	1	47	1
0	24	5	36	3	31	2	0	57	1	51	27
0	25	5	35	3	40	2	0	59	1	55	52
0	26	5	34	3	49	2	1	1	2	0	15
0	27	5	33	3	57	3	1	3	2	4	37
0	28	5	32	4	6	3	1	6	2	8	57
0	29	5	31	4	15	3	1	8	2	13	14
0	30	5	30	4	23	3	1	10	2	17	29

Lune etas communes				Equacio centri		Minuta proporcionalia	Diversitas dyametri		Equacio argumenti		
S	D	H	M	S	G	M	S	M	S	G	M
0	31	5	29	4	32	3	1	12	2	21	43
0	32	5	28	4	41	3	1	14	2	27	55
0	33	5	27	4	49	4	1	16	2	30	5
0	34	5	26	4	58	4	1	19	2	34	12
0	35	5	25	5	7	4	1	21	2	38	17
0	36	5	24	5	17	4	1	23	2	42	21
0	37	5	23	5	24	5	1	25	2	46	22
0	38	5	22	5	33	5	1	27	2	50	19
0	39	5	21	5	41	5	1	29	2	54	19
0	40	5	20	5	50	5	1	31	2	58	7
0	41	5	19	5	59	6	1	33	3	1	58
0	42	5	18	6	7	6	1	35	3	5	46
0	43	5	17	6	16	6	1	37	3	9	31
0	44	5	16	6	21	7	1	39	3	13	13
0	45	5	15	6	33	7	1	40	3	16	11
0	46	5	14	6	42	7	1	42	3	20	26
0	47	5	13	6	50	8	1	44	3	23	59
0	48	5	12	6	58	8	1	45	3	27	30
0	49	5	11	7	7	8	1	47	3	30	17
0	50	5	10	7	17	9	1	48	3	34	20
0	51	5	9	7	23	9	1	49	3	37	40
0	52	5	8	7	32	9	1	51	3	40	17
0	53	5	7	7	40	10	1	53	3	44	17
0	54	5	6	7	48	10	1	54	3	47	27
0	55	5	5	7	56	10	1	56	3	50	26
0	56	5	4	8	4	11	1	58	3	53	29
0	57	5	3	8	12	11	1	59	3	56	30
0	58	5	2	8	20	11	2	1	3	59	26
0	59	5	1	8	28	12	2	2	4	2	17
1	0	5	0	8	36	12	2	3	4	5	4

Tabula equacionum lune secunda

Lune cum communes		Equacio centri			Minuta proporcionalia	Diversitas diametri		Equacio argumenti				Lune cum communes		Equacio centri			Minuta proporcionalia	Diversitas diametri		Equacio argumenti			
S	G	S	G	G	M	M	G	M	S	G	M	S	G	S	G	G	M	M	G	M	S	G	M
1	1	4	59	8	44	13	2	5	4	7	47	1	31	4	29	12	5	27	2	37	4	55	18
1	2	4	58	8	52	13	2	6	4	10	27	1	32	4	28	12	10	27	2	37	4	55	37
1	3	4	57	8	59	14	2	7	4	13	3	1	33	4	27	12	15	28	2	38	4	55	49
1	4	4	56	9	7	14	2	9	4	15	35	1	34	4	26	12	20	28	2	38	4	55	55
1	5	4	55	9	15	15	2	10	4	18	3	1	35	4	25	12	24	29	2	38	4	56	0
1	6	4	54	9	22	15	2	12	4	20	27	1	36	4	24	12	26	30	2	38	4	55	56
1	7	4	53	9	30	15	2	13	4	22	47	1	37	4	23	12	32	30	2	38	4	55	42
1	8	4	52	9	37	16	2	14	4	25	2	1	38	4	22	12	36	31	2	39	4	55	25
1	9	4	51	9	44	16	2	15	4	27	12	1	39	4	21	12	39	31	2	39	4	55	4
1	10	4	50	9	51	17	2	16	4	29	18	1	40	4	20	12	42	32	2	39	4	54	41
1	11	4	49	9	59	17	2	17	4	31	24	1	41	4	19	12	45	32	2	39	4	54	12
1	12	4	48	10	6	18	2	18	4	33	18	1	42	4	18	12	48	33	2	39	4	53	38
1	13	4	47	10	13	18	2	19	4	35	11	1	43	4	17	12	51	33	2	40	4	52	59
1	14	4	46	10	20	19	2	20	4	36	59	1	44	4	16	12	54	34	2	40	4	52	14
1	15	4	45	10	27	19	2	21	4	38	43	1	45	4	15	12	56	35	2	40	4	51	22
1	16	4	44	10	34	20	2	22	4	40	23	1	46	4	14	12	58	35	2	40	4	50	22
1	17	4	43	10	41	20	2	23	4	41	58	1	47	4	13	13	0	36	2	40	4	49	17
1	18	4	42	10	48	21	2	24	4	43	28	1	48	4	12	13	2	36	2	40	4	48	10
1	19	4	41	10	55	21	2	25	4	44	53	1	49	4	11	13	4	37	2	40	4	46	59
1	20	4	40	11	2	22	2	26	4	46	13	1	50	4	10	13	5	37	2	39	4	45	33
1	21	4	39	11	8	22	2	27	4	47	26	1	51	4	9	13	6	38	2	39	4	44	15
1	22	4	38	11	15	23	2	28	4	48	37	1	52	4	8	13	7	38	2	38	4	42	34
1	23	4	37	11	21	23	2	29	4	49	38	1	53	4	7	13	8	39	2	38	4	40	46
1	24	4	36	11	27	23	2	30	4	50	41	1	54	4	6	13	9	39	2	37	4	34	55
1	25	4	35	11	33	24	2	31	4	51	38	1	55	4	5	13	9	40	2	36	4	37	29
1	26	4	34	11	39	24	2	32	4	52	28	1	56	4	4	13	8	40	2	35	4	35	37
1	27	4	33	11	45	25	2	33	4	53	11	1	57	4	3	13	7	41	2	34	4	33	41
1	28	4	32	11	50	25	2	34	4	53	50	1	58	4	2	13	6	41	2	33	4	31	34
1	29	4	31	11	55	26	2	35	4	54	27	1	59	4	1	13	5	42	2	32	4	29	24
1	30	4	30	12	0	26	2	36	4	55	4	1	60	4	0	13	4	42	2	31	4	27	0

Tabula Equacionis Lune tercia

Lunee cum communes		Eq^a cēt		M^a proporcionalia	Diu		Equacio argumenti		
							g	m	2
S	G	S	G	G	M	M	G	M	S	G	M

S	G	S	G	G	M	M	G	M	G	M	2
2	1	3	59	12	3	43	2	30	4	24	38
2	2	3	58	13	1	43	2	29	4	22	11
2	3	3	57	12	59	44	2	28	4	19	38
2	4	3	56	12	56	44	2	26	4	16	58
2	5	3	55	12	53	45	2	25	4	14	13
2	6	3	54	12	49	45	2	23	4	11	23
2	7	3	53	12	46	46	2	22	4	8	28
2	8	3	52	12	41	46	2	21	4	5	31
2	9	3	51	12	36	47	2	19	4	2	30
2	10	3	50	12	30	47	2	18	3	59	20
2	11	3	49	12	23	47	2	16	3	56	5
2	12	3	48	12	16	48	2	15	3	52	49
2	13	3	47	12	9	48	2	14	3	49	23
2	14	3	46	12	2	49	2	12	3	45	52
2	15	3	45	11	54	49	2	10	3	42	17
2	16	3	44	11	46	50	2	9	3	38	37
2	17	3	43	11	38	50	2	7	3	34	13
2	18	3	42	11	29	51	2	5	3	31	3
2	19	3	41	11	20	51	2	3	3	27	17
2	20	3	40	11	11	52	2	1	3	23	12
2	21	3	39	11	2	52	1	58	3	19	4
2	22	3	38	10	54	53	1	56	3	15	2
2	23	3	37	10	45	53	1	54	3	10	50
2	24	3	36	10	35	53	1	51	3	6	37
2	25	3	35	10	22	54	1	49	3	2	17
2	26	3	34	10	11	54	1	46	2	57	51
2	27	3	33	10	0	54	1	43	2	53	23
2	28	3	32	9	48	55	1	41	2	48	51
2	29	3	31	9	35	55	1	38	2	44	17
2	30	3	30	9	22	55	1	35	2	39	57

Lunee cum communes				Eq^o centri		M^a p	Diu dyt		Equacio argumenti		
S	G	S	G	G	M	M	G	M	S	M	2
2	31	3	29	9	8	56	1	32	2	34	52
2	32	3	28	8	53	56	1	29	2	30	6
2	33	3	27	8	38	56	1	26	2	27	16
2	34	3	26	8	22	56	1	24	2	20	23
2	35	3	25	8	5	57	1	21	2	15	26
2	36	3	24	7	48	57	1	18	2	10	26
2	37	3	23	7	31	57	1	16	2	5	22
2	38	3	22	7	14	57	1	13	2	0	17
2	39	3	21	6	56	57	1	10	1	55	9
2	40	3	20	6	39	58	1	8	1	49	58
2	41	3	19	6	21	58	1	5	1	44	44
2	42	3	18	6	3	58	1	2	1	39	27
2	43	3	17	5	45	58	0	59	1	34	9
2	44	3	16	5	27	58	0	56	1	28	49
2	45	3	15	5	8	58	0	52	1	23	26
2	46	3	14	4	49	59	0	49	1	18	1
2	47	3	13	4	30	59	0	46	1	12	34
2	48	3	12	4	11	59	0	42	1	7	6
2	49	3	11	3	52	59	0	39	1	1	36
2	50	3	10	3	32	59	0	36	0	56	4
2	51	3	9	3	12	59	0	32	0	50	32
2	52	3	8	2	52	59	0	29	0	44	58
2	53	3	7	2	32	60	0	25	0	39	23
2	54	3	6	2	11	60	0	21	0	33	47
2	55	3	5	1	50	60	0	18	0	28	10
2	56	3	4	1	29	60	0	14	0	22	33
2	57	3	3	1	7	60	0	11	0	16	56
2	58	3	2	0	45	60	0	8	0	11	18
2	59	3	1	0	23	60	0	4	0	5	47
3	0	3	0	0	0	60	0	0	0	0	0

Tabula Equacionis Saturni prima &c

longior

Linee numeri communes				Equacio centri		Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	1	5	59	0	7	60	0	0	0	6	0	0
0	2	5	58	0	14	60	0	1	0	12	0	3
0	3	5	57	0	20	60	0	1	0	18	0	3
0	4	5	56	0	27	60	0	1	0	24	0	3
0	5	5	55	0	33	60	0	2	0	30	0	2
0	6	5	54	0	40	60	0	2	0	36	0	2
0	7	5	53	0	46	60	0	2	0	42	0	2
0	8	5	52	0	52	60	0	3	0	48	0	3
0	9	5	51	0	58	59	0	3	0	54	0	3
0	10	5	50	1	5	59	0	3	1	0	0	3
0	11	5	49	1	11	59	0	4	1	6	0	4
0	12	5	48	1	17	59	0	4	1	11	0	4
0	13	5	47	1	24	58	0	4	1	17	0	5
0	14	5	46	1	30	58	0	4	1	23	0	5
0	15	5	45	1	36	58	0	5	1	28	0	6
0	16	5	44	1	42	57	0	5	1	34	0	6
0	17	5	43	1	49	57	0	5	1	40	0	7
0	18	5	42	1	55	56	0	5	1	47	0	7
0	19	5	41	2	1	56	0	6	1	51	0	8
0	20	5	40	2	7	56	0	6	1	57	0	8
0	21	5	39	2	13	55	0	6	2	2	0	8
0	22	5	38	2	19	55	0	6	2	8	0	9
0	23	5	37	2	25	54	0	7	2	13	0	9
0	24	5	36	2	31	54	0	7	2	18	0	9
0	25	5	35	2	37	53	0	7	2	24	0	10
0	26	5	34	8	43	53	0	7	2	29	0	10
0	27	5	33	2	49	52	0	8	2	34	0	10
0	28	5	32	2	55	52	0	8	2	40	0	11
0	29	5	31	3	1	51	0	8	2	45	0	11
0	30	5	30	3	6	51	0	8	2	50	0	11

Linee numeri communes				Equacio centri		Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	31	5	29	3	12	50	0	9	2	55	0	12
0	32	5	28	3	18	50	0	9	3	4	0	12
0	33	5	27	3	23	49	0	9	3	5	0	12
0	34	5	26	3	29	49	0	9	3	10	0	12
0	35	5	25	3	34	49	0	9	3	15	0	13
0	36	5	24	3	39	48	0	9	3	20	0	13
0	37	5	23	3	45	48	0	10	3	25	0	13
0	38	5	22	3	50	47	0	10	3	30	0	14
0	39	5	21	3	55	46	0	10	3	35	0	14
0	40	5	20	4	0	46	0	10	3	40	0	14
0	41	5	19	4	5	45	0	10	3	45	0	15
0	42	5	18	4	10	45	0	11	3	49	0	15
0	43	5	17	4	15	44	0	11	3	54	0	15
0	44	5	16	4	20	44	0	11	3	59	0	16
0	45	5	15	4	25	43	0	11	4	3	0	16
0	46	5	14	4	30	42	0	11	4	8	0	16
0	47	5	13	4	35	42	0	12	4	13	0	17
0	48	5	12	4	39	41	0	12	4	17	0	17
0	49	5	11	4	44	40	0	12	4	22	0	17
0	50	5	10	4	48	40	0	12	4	26	0	18
0	51	5	9	4	52	39	0	13	4	30	0	18
0	52	5	8	4	56	39	0	13	4	34	0	18
0	53	5	7	5	1	37	0	13	4	38	0	19
0	54	5	6	5	5	36	0	14	4	42	0	19
0	55	5	5	5	9	35	0	14	4	46	0	19
0	56	5	4	5	13	35	0	14	4	50	0	19
0	57	5	3	5	17	34	0	14	4	53	0	19
0	58	5	2	5	21	33	0	14	4	57	0	19
0	59	5	1	5	25	32	0	15	5	1	0	20
0	0	5	0	5	29	31	0	15	5	4	0	20

Tabula Equacionum Saturni Secunda

Linee numeri communes				Equacio argumenti ad longitudinem longiorem			Equacio centri		Longitudo propior			
S	G	S	G	G	M	M	S	M	S	M	S	M
1	1	4	59	5	33	29	0	16	5	8	0	20
1	2	4	58	5	37	28	0	16	5	12	0	20
1	3	4	57	5	41	27	0	16	5	17	0	20
1	4	4	56	5	44	26	0	16	5	19	0	20
1	5	4	55	5	47	25	0	16	5	22	0	20
1	6	4	54	5	50	24	0	17	5	25	0	20
1	7	4	53	5	53	23	0	17	5	28	0	21
1	8	4	52	5	56	22	0	17	5	31	0	21
1	9	4	51	5	59	21	0	17	5	34	0	21
1	10	4	50	6	2	20	0	17	5	37	0	21
1	11	4	49	6	5	19	0	17	5	40	0	21
1	12	4	48	6	7	18	0	18	5	42	0	21
1	13	4	47	6	9	16	0	18	5	45	0	21
1	14	4	46	6	12	17	0	18	5	47	0	21
1	15	4	45	6	14	14	0	18	5	49	0	21
1	16	4	44	6	16	13	0	18	5	51	0	21
1	17	4	43	6	18	12	0	18	5	53	0	21
1	18	4	42	6	19	11	0	18	5	55	0	21
1	19	4	41	6	21	9	0	18	5	57	0	22
1	20	4	40	6	22	8	0	18	5	59	0	22
1	21	4	39	6	23	7	0	18	6	0	0	22
1	22	4	38	6	25	6	0	19	6	2	0	22
1	23	4	37	6	26	5	0	19	6	4	0	22
1	24	4	36	6	27	4	0	19	6	5	0	22
1	25	4	35	6	28	3	0	19	6	7	0	22
1	26	4	34	6	28	2	0	19	6	8	0	22
1	27	4	33	6	29	1	0	19	6	9	0	23
1	28	4	32	6	30	1 propior	0	19	6	10	0	23
1	29	4	31	6	30	2	0	19	6	11	0	23
1	30	4	30	6	31	3	0	19	6	11	0	23

Linee numeri communes				Equacio argumenti ad longitudinem propiorem			Equacio centri		Longitudo propior			
S	G	S	G	G	M	M	S	M	S	M	S	M
1	31	4	29	6	31	4 propior	0	20	6	12	0	23
1	32	4	28	6	31	5	0	20	6	12	0	23
1	33	4	27	6	31	6	0	20	6	12	0	23
1	34	4	26	6	31	7	0	20	6	13	0	24
1	35	4	25	6	30	8	0	20	6	13	0	24
1	36	4	24	6	30	9	0	20	6	13	0	24
1	37	4	23	6	29	10	0	20	6	13	0	24
1	38	4	22	6	29	11	0	20	6	13	0	24
1	39	4	21	6	28	12	0	21	6	13	0	24
1	40	4	20	6	28	13	0	21	6	13	0	24
1	41	4	19	6	27	14	0	21	6	12	0	24
1	42	4	18	6	26	15	0	21	6	12	0	25
1	43	4	17	6	25	15	0	21	6	11	0	25
1	44	4	16	6	24	16	0	21	6	10	0	25
1	45	4	15	6	22	17	0	21	6	9	0	25
1	46	4	14	6	21	18	0	21	6	8	0	25
1	47	4	13	6	19	19	0	20	6	7	0	25
1	48	4	12	6	17	20	0	20	6	5	0	25
1	49	4	11	6	16	20	0	20	6	4	0	25
1	50	4	10	6	14	21	0	20	6	2	0	25
1	51	4	9	6	12	22	0	20	5	0	0	25
1	52	4	8	6	10	23	0	20	5	59	0	24
1	53	4	7	6	8	24	0	19	5	57	0	24
1	54	4	6	6	6	25	0	19	5	55	0	24
1	55	4	5	6	4	26	0	19	5	53	0	24
1	56	4	4	6	1	26	0	19	5	51	0	24
1	57	4	3	5	58	27	0	19	5	48	0	24
1	58	4	2	5	55	28	0	19	5	46	0	23
1	59	4	1	5	52	29	0	19	5	43	0	23
1	0	4	0	5	49	30	0	19	5	41	0	23

Tabula equacionum Saturni

Linee numeri communes				Equacio centri		Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior		Linee numeri communes				Equacio centri		Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M	S	G	S	G	G	M	M	G	M	G	M	G	M
2	1	3	59	5	46	30	0	19	5	30	0	23	2	31	3	29	3	18	52	0	12	3	14	0	13
2	2	3	58	5	43	31	0	19	5	32	0	23	2	32	3	28	3	14	53	0	11	3	13	0	13
2	3	3	57	5	40	32	0	19	5	31	0	13	2	33	3	27	3	6	53	0	11	3	7	0	13
2	4	3	56	5	36	33	0	19	5	28	0	23	2	34	3	26	2	59	54	0	11	3	1	0	12
2	5	3	55	5	32	33	0	18	5	24	0	22	2	35	3	25	2	52	54	0	10	2	54	0	12
2	6	3	54	5	28	34	0	18	5	21	0	22	2	36	3	24	2	46	55	0	10	2	48	0	12
2	7	3	53	5	24	35	0	18	5	18	0	22	2	37	3	23	2	40	55	0	9	2	42	0	11
2	8	3	52	5	20	36	0	18	5	14	0	22	2	38	3	22	2	34	56	0	9	2	36	0	11
2	9	3	51	5	16	37	0	18	5	10	0	21	2	39	3	21	2	27	56	0	8	2	29	0	11
2	10	3	50	5	12	37	0	17	5	6	0	21	2	40	3	20	2	21	57	0	8	2	23	0	10
2	11	3	49	5	8	38	0	17	5	2	0	21	2	41	3	19	2	14	57	0	7	2	16	0	10
2	12	3	48	5	3	39	0	17	4	58	0	21	2	42	3	18	2	7	58	0	7	2	9	0	10
2	13	3	47	4	58	40	0	17	4	52	0	20	2	43	3	17	2	0	58	0	6	2	2	0	9
2	14	3	46	4	53	41	0	17	4	50	0	20	2	44	3	16	1	53	59	0	6	1	55	0	9
2	15	3	45	4	48	42	0	16	4	47	0	20	2	45	3	15	1	46	59	0	6	1	48	0	8
2	16	3	44	4	43	42	0	16	4	41	0	19	2	46	3	14	1	39	59	0	5	1	41	0	8
2	17	3	43	4	38	43	0	16	4	36	0	19	2	47	3	13	1	32	59	0	5	1	34	0	7
2	18	3	42	4	33	44	0	16	4	31	0	19	2	48	3	12	1	25	60	0	5	1	27	0	7
2	19	3	41	4	28	44	0	16	4	26	0	18	2	49	3	11	1	18	60	0	5	1	20	0	6
2	20	3	40	4	23	45	0	15	4	21	0	18	2	50	3	10	1	11	60	0	4	1	13	0	6
2	21	3	39	4	17	46	0	15	4	16	0	18	2	51	3	9	1	4	60	0	4	1	6	0	5
2	22	3	38	4	12	46	0	15	4	12	0	17	2	52	3	8	0	57	60	0	4	0	59	0	5
2	23	3	37	4	6	47	0	15	4	6	0	17	2	53	3	7	0	50	60	0	3	0	52	0	4
2	24	3	36	4	0	48	0	14	4	0	0	17	2	54	3	6	0	43	60	0	3	0	45	0	4
2	25	3	35	3	54	49	0	14	3	55	0	16	2	55	3	5	0	36	60	0	3	0	38	0	3
2	26	3	34	3	48	49	0	14	3	49	0	16	2	56	3	4	0	29	60	0	2	0	31	0	3
2	27	3	33	3	42	50	0	13	3	43	0	15	2	57	3	3	0	22	60	0	2	0	23	0	2
2	28	3	32	3	36	50	0	13	3	37	0	15	2	58	3	2	0	15	60	0	1	0	16	0	2
2	29	3	31	3	30	51	0	12	3	31	0	14	2	59	3	1	0	8	60	0	1	0	8	0	1
2	30	3	30	3	24	51	0	12	3	25	0	14	3	0	3	0	0	0	60	0	0	0	0	0	0

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Tabula equacionis Jovis prima

Centrum commune		Equacio centri		Augmentum proportionale		Longitudo longior	Equacio argumenti ad 2a				Longitudo propior	
S	G	S	G	G	M	M	S	M	G	M	G	M
0	1	5	59	0	6	60	0	0	0	10	0	0
0	2	5	58	0	12	60	0	1	0	20	0	1
0	3	5	57	0	18	60	0	1	0	29	0	1
0	4	5	56	0	24	60	0	1	0	39	0	1
0	5	5	55	0	30	60	0	2	0	49	0	2
0	6	5	54	0	36	60	0	2	0	58	0	2
0	7	5	53	0	42	60	0	2	1	8	0	2
0	8	5	52	0	48	60	0	3	1	18	0	3
0	9	5	51	0	53	60	0	3	1	28	0	3
0	10	5	50	0	58	60	0	3	1	37	0	3
0	11	5	49	1	5	60	0	4	1	47	0	4
0	12	5	48	1	10	60	0	4	1	57	0	4
0	13	5	47	1	17	59	0	4	2	6	0	5
0	14	5	46	1	23	59	0	5	2	15	0	5
0	15	5	45	1	28	59	0	5	2	24	0	5
0	16	5	44	1	34	59	0	5	2	33	0	6
0	17	5	43	1	40	58	0	6	2	42	0	6
0	18	5	42	1	45	58	0	6	2	52	0	7
0	19	5	41	1	51	58	0	6	3	2	0	7
0	20	5	40	1	57	57	0	7	3	11	0	8
0	21	5	39	2	2	57	0	7	3	20	0	8
0	22	5	38	2	8	57	0	7	3	30	0	8
0	23	5	37	2	13	56	0	8	3	39	0	9
0	24	5	36	2	18	56	0	8	3	48	0	9
0	25	5	35	2	24	55	0	8	3	57	0	9
0	26	5	34	2	30	55	0	9	4	6	0	10
0	27	5	33	2	37	54	0	9	4	15	0	10
0	28	5	32	2	41	54	0	9	4	24	0	10
0	29	5	31	2	46	53	0	10	4	33	0	11
0	30	5	30	2	51	53	0	10	4	42	0	11
0	31	5	29	2	56	52	0	10	4	51	0	11
0	32	5	28	3	1	51	0	11	5	0	0	12
0	33	5	27	3	6	51	0	11	5	8	0	12
0	34	5	26	3	11	50	0	11	5	16	0	12
0	35	5	25	3	17	50	0	12	5	25	0	13
0	36	5	24	3	21	49	0	12	5	34	0	13
0	37	5	23	3	26	49	0	12	5	43	0	13
0	38	5	22	3	31	48	0	13	5	52	0	14
0	39	5	21	3	36	47	0	13	6	0	0	14
0	40	5	20	3	41	47	0	13	6	9	0	14
0	41	5	19	3	45	46	0	14	6	17	0	15
0	42	5	18	3	49	46	0	14	6	25	0	15
0	43	5	17	3	54	45	0	14	6	33	0	15
0	44	5	16	3	59	44	0	15	6	41	0	16
0	45	5	15	4	3	43	0	15	6	49	0	16
0	46	5	14	4	8	43	0	15	6	57	0	17
0	47	5	13	4	12	42	0	16	7	5	0	17
0	48	5	12	4	16	41	0	16	7	12	0	18
0	49	5	11	4	20	40	0	16	7	12	0	18
0	50	5	10	4	24	39	0	17	7	28	0	19
0	51	5	9	4	28	38	0	17	7	37	0	19
0	52	5	8	4	32	37	0	17	7	43	0	19
0	53	5	7	4	36	36	0	18	7	50	0	20
0	54	5	6	4	39	35	0	18	7	57	0	20
0	55	5	5	4	43	34	0	18	8	4	0	20
0	56	5	4	4	47	33	0	19	8	11	0	21
0	57	5	3	4	51	33	0	19	8	17	0	21
0	58	5	2	4	54	32	0	19	8	24	0	21
0	59	5	1	4	58	31	0	20	8	31	0	22
1	0	5	0	5	1	30	0	20	8	37	0	22

Tabula equacionum Iovis secunda etc.

linee numeri communes		equacio argumenti		longitudo longior			equacio centri			longitudo propior		
S	G	G	M	G	M	M	S	M	G	M	S	M
1	1	4	59	5	7	29	0	20	8	44	0	22
1	2	4	58	5	9	28	0	21	8	50	0	23
1	3	4	57	5	12	27	0	21	8	56	0	23
1	4	4	56	5	15	26	0	21	9	2	0	23
1	5	4	55	5	18	25	0	22	9	8	0	24
1	6	4	54	5	20	24	0	22	9	14	0	24
1	7	4	53	5	23	23	0	22	9	20	0	24
1	8	4	52	5	26	21	0	23	9	26	0	25
1	9	4	51	5	28	20	0	23	9	31	0	25
1	10	4	50	5	31	19	0	23	9	36	0	25
1	11	4	49	5	33	18	0	24	9	41	0	26
1	12	4	48	5	35	17	0	24	9	46	0	26
1	13	4	47	5	37	16	0	24	9	51	0	26
1	14	4	46	5	39	15	0	25	9	56	0	27
1	15	4	45	5	41	14	0	25	10	0	0	27
1	16	4	44	5	43	13	0	25	10	5	0	27
1	17	4	43	5	44	12	0	25	10	9	0	28
1	18	4	42	5	46	11	0	26	10	13	0	28
1	19	4	41	5	48	10	0	26	10	17	0	28
1	20	4	40	5	49	9	0	26	10	21	0	29
1	21	4	39	5	50	8	0	26	10	25	0	29
1	22	4	38	5	51	7	0	26	10	29	0	29
1	23	4	37	5	52	6	0	26	10	32	0	29
1	24	4	36	5	53	5	0	27	10	35	0	30
1	25	4	35	5	54	4	0	27	10	38	0	30
1	26	4	34	5	55	3	0	27	10	41	0	30
1	27	4	33	5	55	2	0	27	10	44	0	30
1	28	4	32	5	56	1	0	27	10	47	0	30
1	29	4	31	5	56 minor	1	0	27	10	49	0	30
1	30	4	30	5	57	2	0	27	10	51	0	30

linee numeri communes		equacio argumenti		longitudo longior			equacio centri			longitudo propior		
S	G	G	M	G	M	M	S	M	G	M	S	M
1	31	4	29	5	57	3	0	27	10	53	0	31
1	32	4	28	5	57	4	0	28	10	55	0	31
1	33	4	27	5	57	5	0	28	10	57	0	31
1	34	4	26	5	57	5	0	28	10	59	0	31
1	35	4	25	5	57	6	0	28	11	0	0	31
1	36	4	24	5	57	7	0	28	11	1	0	31
1	37	4	23	5	56	8	0	28	11	2	0	31
1	38	4	22	5	56	9	0	28	11	2	0	32
1	39	4	21	5	55	10	0	29	11	3	0	32
1	40	4	20	5	55	11	0	29	11	3	0	32
1	41	4	19	5	54	12	0	29	11	3	0	32
1	42	4	18	5	53	13	0	29	11	3	0	32
1	43	4	17	5	52	14	0	29	11	2	0	32
1	44	4	16	5	51	15	0	29	11	2	0	32
1	45	4	15	5	49	16	0	29	11	2	0	32
1	46	4	14	5	48	17	0	29	11	1	0	32
1	47	4	13	5	46	18	0	30	11	0	0	33
1	48	4	12	5	44	19	0	30	10	59	0	33
1	49	4	11	5	43	20	0	30	10	57	0	33
1	50	4	10	5	41	21	0	30	10	55	0	33
1	51	4	9	5	39	22	0	30	10	53	0	33
1	52	4	8	5	37	23	0	30	10	51	0	33
1	53	4	7	5	35	23	0	30	10	48	0	33
1	54	4	6	5	33	24	0	30	10	45	0	33
1	55	4	5	5	31	25	0	30	10	42	0	33
1	56	4	4	5	29	26	0	30	10	39	0	33
1	57	4	3	5	27	27	0	30	10	35	0	33
1	58	4	2	5	25	28	0	30	10	31	0	33
1	59	4	1	5	22	29	0	29	10	27	0	33
2	0	4	0	5	19	30	0	29	10	23	0	33

Tabula Equacionum Jovis tercia

Medium centrum		Equacio centri				longitudo longior		Equacio argumenti		longitudo propior		
S	G	S	G	G	M	M	G	M	G	M	G	M
2	1	3	59	5	16	31	0	29	10	19	0	32
2	2	3	58	5	13	32	0	29	10	15	0	32
2	3	3	57	5	10	33	0	29	10	10	0	32
2	4	3	56	5	6	34	0	29	10	5	0	32
2	5	3	55	5	3	35	0	29	10	0	0	32
2	6	3	54	4	59	36	0	29	9	52	0	32
2	7	3	53	4	55	37	0	28	9	48	0	32
2	8	3	52	4	51	38	0	28	9	42	0	31
2	9	3	51	4	47	39	0	28	9	36	0	31
2	10	3	50	4	43	40	0	28	9	30	0	31
2	11	3	49	4	39	41	0	28	9	24	0	31
2	12	3	48	4	35	42	0	28	9	17	0	31
2	13	3	47	4	31	42	0	27	9	10	0	31
2	14	3	46	4	27	43	0	27	9	2	0	30
2	15	3	45	4	22	43	0	26	8	54	0	30
2	16	3	44	4	18	44	0	26	8	47	0	29
2	17	3	43	4	13	45	0	26	8	39	0	29
2	18	3	42	4	8	46	0	26	8	31	0	29
2	19	3	41	4	4	46	0	25	8	22	0	28
2	20	3	40	3	59	47	0	25	8	13	0	28
2	21	3	39	3	54	47	0	25	8	4	0	28
2	22	3	38	3	49	48	0	24	7	59	0	27
2	23	3	37	3	44	48	0	24	7	55	0	26
2	24	3	36	3	38	49	0	24	7	47	0	26
2	25	3	35	3	33	49	0	23	7	36	0	26
2	26	3	34	3	28	50	0	23	7	26	0	25
2	27	3	33	3	22	50	0	23	7	18	0	24
2	28	3	32	3	17	51	0	22	7	8	0	24
2	29	3	31	3	12	51	0	22	6	55	0	23
2	30	3	30	3	6	52	0	21	6	34	0	22

Medium centrum		Equacio centri				longitudo longior		Equacio argumenti		longitudo propior		
S	G	S	G	G	M	M	G	M	G	M	G	M
2	31	3	29	3	1	52	0	21	6	23	0	22
2	32	3	28	2	55	53	0	20	6	12	0	21
2	33	3	27	2	49	53	0	19	6	0	0	20
2	34	3	26	2	44	53	0	19	5	48	0	20
2	35	3	25	2	38	54	0	18	5	36	0	19
2	36	3	24	2	32	54	0	17	5	24	0	18
2	37	3	23	2	26	54	0	17	5	12	0	18
2	38	3	22	2	20	55	0	16	5	0	0	17
2	39	3	21	2	14	55	0	15	4	47	0	16
2	40	3	20	2	8	56	0	15	4	35	0	16
2	41	3	19	2	2	56	0	14	4	22	0	15
2	42	3	18	1	56	57	0	13	4	9	0	14
2	43	3	17	1	50	57	0	13	3	56	0	14
2	44	3	16	1	43	57	0	12	3	42	0	13
2	45	3	15	1	37	58	0	11	3	29	0	12
2	46	3	14	1	30	58	0	11	3	16	0	12
2	47	3	13	1	24	59	0	10	3	3	0	11
2	48	3	12	1	18	59	0	9	2	49	0	10
2	49	3	11	1	18	59	0	9	2	35	0	10
2	50	3	10	1	5	59	0	8	2	21	0	9
2	51	3	9	0	59	60	0	7	2	7	0	8
2	52	3	8	0	52	60	0	6	1	53	0	7
2	53	3	7	0	46	60	0	6	1	39	0	7
2	54	3	6	0	39	60	0	5	1	25	0	6
2	55	3	5	0	33	60	0	5	1	12	0	5
2	56	3	4	0	27	60	0	4	0	29	0	4
2	57	3	3	0	20	60	0	3	0	43	0	3
2	58	3	2	0	14	60	0	2	0	29	0	2
2	59	3	1	0	9	60	0	1	0	15	0	1
3	0	3	0	0	0	60	0	0	0	0	0	0

Tabula equacionis Martis prima vel

linee numeri communes				equacio centri		minuta proporcionalia	longitudo longior		equacio argumenti		longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	1	5	59	0	11	60	0	2	0	24	0	2
0	2	5	58	0	21	60	0	3	0	48	0	3
0	3	5	57	0	23	60	0	4	1	12	0	4
0	4	5	56	0	44	60	0	6	1	36	0	6
0	5	5	55	0	55	60	0	7	2	0	0	7
0	6	5	54	1	5	60	0	8	2	24	0	9
0	7	5	53	1	16	59	0	10	2	48	0	10
0	8	5	52	1	27	59	0	11	3	12	0	12
0	9	5	51	1	38	59	0	12	3	36	0	13
0	10	5	50	1	49	59	0	14	3	59	0	15
0	11	5	49	2	0	59	0	15	4	24	0	16
0	12	5	48	2	10	59	0	16	4	46	0	18
0	13	5	47	2	21	58	0	18	5	0	0	20
0	14	5	46	2	32	58	0	19	5	34	0	21
0	15	5	45	2	42	58	0	20	5	57	0	23
0	16	5	44	2	53	57	0	22	6	21	0	24
0	17	5	43	3	3	57	0	23	6	44	0	26
0	18	5	42	3	13	57	0	24	7	8	0	28
0	19	5	41	3	44	56	0	26	7	32	0	29
0	20	5	40	3	35	56	0	27	7	56	0	31
0	21	5	39	3	45	56	0	28	8	19	0	32
0	22	5	38	3	56	55	0	30	8	43	0	34
0	23	5	37	4	6	55	0	32	9	6	0	35
0	24	5	36	4	16	55	0	33	9	30	0	37
0	25	5	35	4	26	54	0	35	9	54	0	38
0	26	5	34	4	36	54	0	37	10	18	0	40
0	27	5	33	4	46	53	0	38	10	41	0	41
0	28	5	32	4	56	53	0	40	11	5	0	42
0	29	5	31	5	6	52	0	41	11	28	0	44
0	30	5	30	5	16	52	0	42	11	51	0	46

linee numeri communes				equacio centri		minuta proporcionalia	longitudo longior		equacio argumenti		longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	31	5	29	5	26	51	0	44	12	11	0	48
0	32	5	28	5	36	51	0	45	12	18	0	50
0	33	5	27	5	47	50	0	47	13	1	0	51
0	34	5	26	5	55	50	0	48	13	25	0	53
0	35	5	25	6	4	49	0	50	13	48	0	55
0	36	5	24	6	13	49	0	51	14	11	0	56
0	37	5	23	6	22	48	0	53	14	34	0	58
0	38	5	22	6	21	47	0	54	14	57	1	0
0	39	5	21	6	40	47	0	56	15	20	1	1
0	40	5	20	6	49	46	0	57	15	43	1	3
0	41	5	19	6	48	45	0	59	16	6	1	5
0	42	5	18	7	7	45	1	0	16	29	1	6
0	43	5	17	7	16	44	1	1	16	52	1	8
0	44	5	16	7	24	44	1	3	17	15	1	10
0	45	5	15	7	32	43	1	5	17	28	1	11
0	46	5	14	7	41	42	1	6	18	1	1	13
0	47	5	13	7	49	41	1	8	18	24	1	15
0	48	5	12	7	57	40	1	9	18	48	1	16
0	49	5	11	8	5	40	1	11	19	4	1	18
0	50	5	10	8	13	39	1	12	19	21	1	20
0	51	5	9	8	20	38	1	14	19	53	1	22
0	52	5	8	8	24	37	1	15	20	16	1	24
0	53	5	7	8	37	36	1	17	20	38	1	26
0	54	5	6	8	47	35	1	18	21	0	1	28
0	55	5	5	8	50	34	1	20	21	23	1	30
0	56	5	4	8	57	33	1	21	21	47	1	31
0	57	5	3	9	4	32	1	23	22	11	1	34
0	58	5	2	9	11	31	1	24	22	29	1	36
0	59	5	1	9	18	34	1	26	22	51	1	38
1	0	5	0	9	24	30	1	27	23	13	1	40

Tabula Equacionum Martis Orandi

Linee medium communes | Equacio centri | Minuta proporcionalia | Longitudo longior | Equacio argumenti | Longitudo propior

S	G	S	G	G	M	M	G	M	G	M	G	M	
1	1	4	59	9	31	29	1	29	23	31	1	42	4
1	2	4	58	9	37	28	1	30	23	37	1	44	5
1	3	4	57	9	43	27	1	32	24	18	1	46	6
1	4	4	56	9	49	26	1	34	24	40	1	48	7
1	5	4	55	9	55	25	1	36	25	1	1	50	8
1	6	4	54	10	0	24	1	38	25	22	1	53	9
1	7	4	53	10	5	23	1	39	25	44	1	55	10
1	8	4	52	10	10	22	1	41	26	7	1	57	11
1	9	4	51	10	15	21	1	43	26	26	1	59	12
1	10	4	50	10	20	20	1	45	26	47	2	1	13
1	11	4	49	10	25	19	1	47	27	8	2	3	14
1	12	4	48	10	29	18	1	49	27	29	2	4	15
1	13	4	47	10	34	16	1	51	27	50	2	8	16
1	14	4	46	10	38	15	1	53	28	11	2	10	16
1	15	4	45	10	42	14	1	55	28	31	2	12	
1	16	4	44	10	46	13	1	57	28	52	2	14	
1	17	4	43	10	50	13	1	59	29	12	2	16	
1	18	4	42	10	53	11	2	1	29	32	2	19	
1	19	4	41	10	57	10	2	3	29	52	2	21	
1	20	4	40	11	0	9	2	5	30	12	2	23	
1	21	4	39	11	3	8	2	8	30	32	2	26	
1	22	4	38	11	6	7	2	10	30	52	2	28	
1	23	4	37	11	9	5	2	12	31	11	2	30	
1	24	4	36	11	12	4	2	14	31	30	2	32	
1	25	4	35	11	15	3	2	16	31	49	2	35	
1	26	4	34	11	17	2	2	18	32	8	2	38	
1	27	4	33	11	18	[illegible]	2	20	32	27	2	41	
1	28	4	32	11	21	1	2	23	32	46	2	43	
1	29	4	31	11	22	2	2	25	33	4	2	46	
1	30	4	30	11	23	3	2	27	33	12	2	46	

Linee medium communes | Equacio centri | Minuta proporcionalia | Longitudo longior | Equacio argumenti | Longitudo propior

S	G	S	G	G	M	M	G	M	G	M	G	M
1	31	4	29	11	23	4	2	30	33	50	2	53
1	32	4	28	11	24	5	2	32	33	58	2	55
1	33	4	27	11	24	6	2	35	34	15	2	54
1	34	4	26	11	24	7	2	37	34	32	3	0
1	35	4	25	11	24	8	2	39	34	49	3	3
1	36	4	24	11	24	9	2	42	35	6	3	6
1	37	4	23	11	23	10	2	44	35	23	3	9
1	38	4	22	11	23	11	2	47	35	41	3	12
1	39	4	21	11	22	12	2	49	35	56	3	15
1	40	4	20	11	21	13	2	51	36	12	3	19
1	41	4	19	11	20	14	2	54	36	28	3	22
1	42	4	18	11	19	15	2	56	36	43	3	25
1	43	4	17	11	17	16	2	59	36	58	3	28
1	44	4	16	11	15	16	3	1	37	13	3	22
1	45	4	15	11	13	17	3	4	37	27	3	36
1	46	4	14	11	11	18	3	7	37	41	3	39
1	47	4	13	11	9	19	3	10	37	55	3	43
1	48	4	12	11	6	20	3	13	38	9	3	47
1	49	4	11	11	3	21	3	16	38	23	3	51
1	50	4	10	11	0	22	3	19	38	36	3	54
1	51	4	9	10	57	23	3	22	38	48	3	58
1	52	4	8	10	53	[illegible]	3	25	39	1	4	1
1	53	4	7	10	49	24	3	28	39	13	4	5
1	54	4	6	10	45	25	3	32	39	24	4	9
1	55	4	5	10	41	26	3	35	39	35	4	15
1	56	4	4	10	36	27	3	39	39	47	4	17
1	57	4	3	10	33	27	3	43	39	56	4	21
1	58	4	2	10	29	28	3	46	40	5	4	26
1	59	4	1	10	25	29	3	50	40	14	4	30
2	0	4	0	10	21	30	3	54	40	23	4	35

Tabula Equacionum Martis Tercia

Incrementum centri		Equacio centri				Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
2	1	3	59	10	17	30 propior	3	17	40	30	4	44
2	2	3	58	10	12	31	4	0	40	37	4	47
2	3	3	57	10	6	32	4	4	40	44	4	50
2	4	3	56	10	0	33	4	7	40	49	4	55
2	5	3	55	9	54	34	4	10	40	54	5	0
2	6	3	54	9	48	35	4	14	40	59	5	5
2	7	3	53	9	43	36	4	17	41	2	5	10
2	8	3	52	9	37	37	4	21	41	5	5	15
2	9	3	51	9	27	38	4	24	41	8	5	21
2	10	3	50	9	20	39	4	28	41	9	5	36
2	11	3	49	9	13	40	4	31	41	10	5	31
2	12	3	48	9	5	41	4	35	41	10	5	37
2	13	3	47	8	57	41	4	38	41	7	5	43
2	14	3	46	8	49	42	4	41	41	4	5	49
2	15	3	45	8	41	42	4	45	41	0	5	55
2	16	3	44	8	32	43	4	48	40	55	6	5
2	17	3	43	8	23	44	4	52	40	50	6	8
2	18	3	42	8	14	45	4	56	40	45	6	15
2	19	3	41	8	5	46	4	59	40	39	6	21
2	20	3	40	7	56	47	5	3	40	31	6	27
2	21	3	39	7	47	47	5	7	40	21	6	34
2	22	3	38	7	37	48	5	11	40	8	6	41
2	23	3	37	7	27	48	5	15	39	53	6	47
2	24	3	36	7	17	49	5	18	39	37	6	53
2	25	3	35	7	7	49	5	22	39	20	6	59
2	26	3	34	6	57	50	5	25	39	1	7	5
2	27	3	33	6	47	50	5	28	38	49	7	12
2	28	3	32	6	37	50	5	30	38	6	7	18
2	29	3	31	6	26	51	5	32	37	51	7	24
2	30	3	0	6	16	51	5	34	37	22	7	29

Incrementum centri		Equacio centri				Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
2	31	3	29	6	5	52 propior	5	30	36	[illegible]	7	35
2	32	3	28	5	54	52	5	37	36	26	7	40
2	33	3	27	5	43	53	5	38	35	52	7	45
2	34	3	26	5	32	53	5	38	35	11	7	49
2	35	3	25	5	21	54	5	38	34	35	7	58
2	36	3	24	5	4	55	5	38	33	12	7	58
2	37	3	23	4	57	55	5	37	33	7	8	0
2	38	3	22	4	45	56	5	36	32	24	8	3
2	39	3	21	4	32	56	5	34	31	30	8	3
2	40	3	20	4	20	57	5	30	30	26	8	2
2	41	3	19	4	8	57	5	25	29	28	8	0
2	42	3	18	3	55	58	5	18	28	35	7	58
2	43	3	17	3	43	58	5	10	27	28	7	55
2	44	3	16	3	31	58	5	1	26	16	7	51
2	45	3	15	3	18	58	4	52	25	3	7	40
2	46	3	14	3	5	58	4	41	23	47	7	34
2	47	3	13	2	52	59	4	30	22	24	7	26
2	48	3	12	2	39	59	4	18	21	0	7	2
2	49	3	11	2	26	59	4	4	19	29	6	42
2	50	3	10	2	13	59	3	48	17	58	6	16
2	51	3	9	1	59	59	3	32	16	26	5	47
2	52	3	8	1	46	59	3	12	14	47	5	22
2	53	3	7	1	33	59	3	50	12	1	4	59
2	54	3	6	1	20	59	3	27	11	12	4	26
2	55	3	5	1	7	60	3	4	9	27	3	46
2	56	3	4	0	54	60	1	49	7	37	3	3
2	57	3	3	0	40	60	1	10	5	45	2	20
2	58	3	2	0	27	60	0	51	3	55	1	34
2	59	3	1	0	14	60	0	26	1	50	0	47
3	0	3	0	0	0	60	0	0	0	0	0	0

Tabula Equacionum Veneris Prima etc.

linee numeri communes				Equacio centri		minuta proporcionalia	longitudo longior		Equacio argumenti		longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	1	5	59	0	2	60	0	0	0	26	0	0
0	2	5	58	0	4	60	0	1	0	51	0	1
0	3	5	57	0	6	60	0	1	1	16	0	1
0	4	5	56	0	9	60	0	1	1	41	0	1
0	5	5	55	0	11	60	0	1	2	6	0	2
0	6	5	54	0	13	60	0	1	2	31	0	2
0	7	5	53	0	15	60	0	1	2	56	0	2
0	8	5	52	0	17	59	0	1	3	21	0	3
0	9	5	51	0	19	59	0	2	3	46	0	3
0	10	5	50	0	21	59	0	2	4	11	0	3
0	11	5	49	0	24	59	0	2	4	36	0	4
0	12	5	48	0	26	59	0	3	5	1	0	4
0	13	5	47	0	28	58	0	3	5	26	0	4
0	14	5	46	0	30	58	0	3	5	51	0	5
0	15	5	45	0	32	58	0	4	6	16	0	5
0	16	5	44	0	34	57	0	4	6	41	0	5
0	17	5	43	0	36	57	0	5	7	6	0	6
0	18	5	42	0	38	57	0	5	7	31	0	6
0	19	5	41	0	41	56	0	5	7	56	0	6
0	20	5	40	0	43	56	0	6	8	21	0	7
0	21	5	39	0	45	56	0	6	8	46	0	7
0	22	5	38	0	47	55	0	6	9	11	0	7
0	23	5	37	0	49	55	0	7	9	36	0	8
0	24	5	36	0	51	55	0	7	10	1	0	8
0	25	5	35	0	53	54	0	7	10	26	0	8
0	26	5	34	0	55	54	0	8	10	51	0	9
0	27	5	33	0	57	53	0	8	11	16	0	9
0	28	5	32	0	59	53	0	8	11	41	0	9
0	29	5	31	1	1	52	0	9	12	6	0	10
0	30	5	30	1	3	52	0	9	12	30	0	10
0	31	5	29	1	5	51	0	9	12	55	0	10
0	32	5	28	1	7	51	0	10	13	20	0	11
0	33	5	27	1	9	50	0	10	13	44	0	11
0	34	5	26	1	10	50	0	10	14	9	0	11
0	35	5	25	1	12	49	0	11	14	34	0	11
0	36	5	24	1	14	49	0	11	14	58	0	12
0	37	5	23	1	16	48	0	11	15	23	0	12
0	38	5	22	1	17	48	0	12	15	48	0	12
0	39	5	21	1	19	47	0	12	16	12	0	12
0	40	5	20	1	21	47	0	12	16	37	0	13
0	41	5	19	1	22	46	0	13	17	1	0	13
0	42	5	18	1	24	45	0	13	17	25	0	13
0	43	5	17	1	26	45	0	13	17	50	0	13
0	44	5	16	1	27	44	0	14	18	14	0	14
0	45	5	15	1	29	43	0	14	18	38	0	14
0	46	5	14	1	31	42	0	14	19	3	0	15
0	47	5	13	1	32	42	0	15	19	27	0	15
0	48	5	12	1	34	41	0	15	19	51	0	15
0	49	5	11	1	36	40	0	15	20	15	0	15
0	50	5	10	1	38	40	0	16	20	39	0	16
0	51	5	9	1	39	39	0	16	21	3	0	16
0	52	5	8	1	40	38	0	16	21	20	0	16
0	53	5	7	1	42	37	0	17	21	51	0	17
0	54	5	6	1	43	36	0	17	22	15	0	17
0	55	5	5	1	44	35	0	17	22	39	0	17
0	56	5	4	1	46	34	0	18	23	3	0	18
0	57	5	3	1	47	33	0	18	23	27	0	18
0	58	5	2	1	48	32	0	18	23	51	0	18
0	59	5	1	1	50	31	0	19	24	15	0	19
1	0	5	0	1	51	30	0	19	24	38	0	19

Tabula Equacionum Veneris Planete

Linea numeri communis		Equatio centri		Minuta proportionalia			Longitudo longior		Equatio argumenti		Longitudo propior	
S	G	G	M	G	M	M	G	M	G	M	G	M
1	1	4	59	1	52	29	0	19	25	5	0	19
1	2	4	58	1	53	28	0	20	25	27	0	20
1	3	4	57	1	54	27	0	20	25	44	0	20
1	4	4	56	1	55	26	0	20	26	11	0	21
1	5	4	55	1	56	25	0	21	26	33	0	21
1	6	4	54	1	57	24	0	21	26	54	0	22
1	7	4	53	1	58	23	0	21	27	20	0	22
1	8	4	52	1	59	22	0	22	27	43	0	23
1	9	4	51	2	0	21	0	22	28	6	0	23
1	10	4	50	2	1	20	0	22	28	29	0	24
1	11	4	49	2	1	19	0	23	28	52	0	24
1	12	4	48	2	2	18	0	23	29	14	0	25
1	13	4	47	2	3	16	0	23	29	37	0	25
1	14	4	46	2	3	15	0	24	29	59	0	26
1	15	4	45	2	4	14	0	24	30	22	0	27
1	16	4	44	2	5	13	0	24	30	43	0	27
1	17	4	43	2	5	12	0	25	31	5	0	28
1	18	4	42	2	6	11	0	25	31	27	0	28
1	19	4	41	2	6	10	0	25	31	49	0	29
1	20	4	40	2	7	9	0	26	32	11	0	29
1	21	4	39	2	7	8	0	26	32	33	0	30
1	22	4	38	2	8	7	0	26	32	55	0	30
1	23	4	37	2	8	6	0	27	33	17	0	31
1	24	4	36	2	9	5	0	27	33	38	0	31
1	25	4	35	2	9	4	0	27	34	0	0	32
1	26	4	34	2	9	3	0	28	34	21	0	32
1	27	4	33	2	9	2	0	28	34	42	0	33
1	28	4	32	2	10	1	0	28	35	3	0	33
1	29	4	31	2	10	1	0	29	35	24	0	34
1	30	4	30	2	10	2	0	29	35	44	0	34

34

Linea numeri communis		Equatio centri		Minuta proportionalia			Longitudo longior		Equatio argumenti		Longitudo propior	
S	G	G	M	G	M	M	G	M	G	M	G	M
1	31	4	29	2	10	3	0	34	36	4	0	35
1	32	4	28	2	10	4	0	35	36	24	0	36
1	33	4	27	2	10	5	0	35	36	44	0	37
1	34	4	26	2	10	6	0	36	37	4	0	37
1	35	4	25	2	10	7	0	36	37	23	0	38
1	36	4	24	2	10	8	0	37	37	43	0	38
1	37	4	23	2	10	9	0	37	38	2	0	39
1	38	4	22	2	10	10	0	38	38	21	0	40
1	39	4	21	2	9	11	0	38	38	40	0	40
1	40	4	20	2	9	12	0	39	38	59	0	41
1	41	4	19	2	9	13	0	39	39	[illegible]	0	42
1	42	4	18	2	8	14	0	40	39	31	0	43
1	43	4	17	2	8	15	0	41	39	33	0	43
1	44	4	16	2	7	16	0	41	40	11	0	44
1	45	4	15	2	7	17	0	42	40	29	0	45
1	46	4	14	2	6	18	0	43	40	46	0	46
1	47	4	13	2	6	19	0	43	41	3	0	47
1	48	4	12	2	5	20	0	44	41	20	0	47
1	49	4	11	2	5	21	0	45	41	37	0	48
1	50	4	10	2	4	22	0	46	41	53	0	49
1	51	4	9	2	4	23	0	47	42	9	0	50
1	52	4	8	2	3	24	0	48	42	25	0	51
1	53	4	7	2	2	25	0	49	42	41	0	52
1	54	4	6	2	1	26	0	50	42	53	0	52
1	55	4	5	2	0	27	0	51	43	7	0	53
1	56	4	4	1	59	28	0	51	43	21	0	54
1	57	4	3	1	58	29	0	52	43	31	0	55
1	58	4	2	1	57	30	0	53	43	48	0	56
1	59	4	1	1	56	31	0	54	44	1	0	56
1	0	4	0	1	55	31	0	54	44	13	0	57

Tabula equationum veneris [illegible]

Argumentum commune				Equatio centri		Minuta proportionalia	Longitudo longior		Equatio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
2	1	3	59	1	57	32	0	55	44	21	0	58
2	2	3	58	1	53	33	0	56	44	36	0	59
2	3	3	57	1	52	34	0	57	44	47	1	0
2	4	3	56	1	50	35	0	58	44	57	1	1
2	5	3	55	1	49	36	1	59	45	6	1	2
2	6	3	54	1	48	37	1	0	45	12	1	2
2	7	3	53	1	46	37	1	1	45	12	1	5
2	8	3	52	1	45	39	1	2	45	27	1	6
2	9	3	51	1	44	40	1	3	45	33	1	8
2	10	3	50	1	42	40	1	4	45	39	1	9
2	11	3	49	1	41	41	1	5	45	41	1	10
2	12	3	48	1	39	42	1	6	45	50	1	11
2	13	3	47	1	38	43	1	7	45	54	1	12
2	14	3	46	1	36	44	1	9	45	57	1	13
2	15	3	45	1	35	44	1	10	45	59	1	15
2	16	3	44	1	33	45	1	11	45	59	1	16
2	17	3	43	1	31	46	1	12	45	58	1	17
2	18	3	42	1	30	47	1	14	45	57	1	19
2	19	3	41	1	28	48	1	17	45	55	1	20
2	20	3	40	1	26	48	1	18	45	51	1	21
2	21	3	39	1	24	48	1	19	45	46	1	23
2	22	3	38	1	23	49	1	21	45	39	1	24
2	23	3	37	1	21	49	1	23	45	31	1	25
2	24	3	36	1	19	50	1	24	45	21	1	27
2	25	3	35	1	17	50	1	26	45	7	1	28
2	26	3	34	1	15	51	1	28	44	55	1	30
2	27	3	33	1	13	51	1	29	44	40	1	32
2	28	3	32	1	11	52	1	31	44	21	1	34
2	29	3	31	1	9	52	1	32	44	1	1	36
2	30	3	30	1	7	53	1	33	43	39	1	38

Argumentum commune				Equatio centri		Minuta proportionalia	Longitudo longior		Equatio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
2	31	3	29	1	5	51	1	35	43	15	1	40
2	32	3	28	1	3	54	1	36	42	48	1	42
2	33	3	27	1	1	54	1	37	42	18	1	44
2	34	3	26	0	59	55	1	38	41	55	1	46
2	35	3	25	0	57	55	1	39	41	8	1	47
2	36	3	24	0	55	56	1	34	40	28	1	48
2	37	3	23	0	52	56	1	40	39	46	1	49
2	38	3	22	0	50	56	1	40	38	58	1	50
2	39	3	21	0	48	57	1	41	38	7	1	51
2	40	3	20	0	46	57	1	41	37	12	1	51
2	41	3	19	0	44	57	1	42	36	12	1	52
2	42	3	18	0	42	57	1	41	35	7	1	52
2	43	3	17	0	40	58	1	40	33	57	1	52
2	44	3	16	0	37	58	1	[illegible]	32	54	1	51
2	45	3	15	0	35	58	1	40	31	28	1	50
2	46	3	14	0	33	58	1	[illegible]	29	58	1	48
2	47	3	13	0	31	58	1	28	28	25	1	46
2	48	3	12	0	28	59	1	24	26	56	1	43
2	49	3	11	0	26	59	1	28	25	2	1	38
2	50	3	10	0	24	59	1	29	23	12	1	33
2	51	3	9	0	21	59	1	19	21	17	1	27
2	52	3	8	0	19	59	1	12	19	11	1	21
2	53	3	7	0	17	59	1	4	17	41	1	14
2	54	3	6	0	14	60	0	51	14	47	1	6
2	55	3	5	0	12	60	0	48	12	56	0	57
2	56	3	4	0	10	60	0	40	10	45	0	46
2	57	3	3	0	7	60	0	31	7	38	0	37
2	58	3	2	0	5	60	0	21	5	9	0	24
2	59	3	1	0	3	60	0	11	2	36	0	12
3	0	3	0	0	0	60	0	0	0	0	0	0

Tabula Equacionis Mercurii Prima

Linee numeri communes				Equacio centri		Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	1	5	29	0	3	60	0	2	0	17	0	1
0	2	5	28	0	6	60	0	4	0	33	0	2
0	3	5	27	0	9	60	0	5	0	49	0	3
0	4	5	26	0	12	59	0	7	1	5	0	4
0	5	5	25	0	15	59	0	9	1	22	0	4
0	6	5	24	0	17	59	0	10	1	38	0	5
0	7	5	23	0	20	58	0	12	1	55	0	6
0	8	5	22	0	23	58	0	14	2	11	0	7
0	9	5	21	0	25	58	0	15	2	27	0	8
0	10	5	20	0	28	57	0	17	2	44	0	9
0	11	5	49	0	30	57	0	19	3	0	0	10
0	12	5	48	0	33	57	0	20	3	16	0	11
0	13	5	47	0	35	56	0	22	3	32	0	12
0	14	5	46	0	38	56	0	23	3	48	0	13
0	15	5	45	0	40	55	0	24	4	5	0	14
0	16	5	44	0	43	55	0	26	4	21	0	15
0	17	5	43	0	45	54	0	28	4	37	0	16
0	18	5	42	0	48	54	0	29	4	53	0	17
0	19	5	41	0	50	53	0	31	5	9	0	18
0	20	5	40	0	53	53	0	33	5	25	0	19
0	21	5	39	0	55	52	0	34	5	41	0	20
0	22	5	38	1	58	51	0	36	5	50	0	21
0	23	5	37	1	0	51	0	38	6	13	0	22
0	24	5	36	1	2	50	0	39	6	29	0	23
0	25	5	35	1	5	49	0	41	6	45	0	24
0	26	5	34	1	8	48	0	43	7	1	0	24
0	27	5	33	1	10	47	0	44	7	17	0	25
0	28	5	32	1	13	46	0	46	7	33	0	26
0	29	5	31	1	15	45	0	48	7	49	0	27
0	30	5	30	1	17	44	0	49	8	4	0	28

Linee numeri communes				Equacio centri		Minuta proporcionalia	Longitudo longior		Equacio argumenti		Longitudo propior	
S	G	S	G	G	M	M	G	M	G	M	G	M
0	31	5	29	1	20	43	0	51	8	20	0	29
0	32	5	28	1	23	42	0	53	8	35	0	30
0	33	5	27	1	25	41	0	54	8	50	0	31
0	34	5	26	1	28	40	0	56	9	6	0	32
0	35	5	25	1	30	39	0	58	9	21	0	33
0	36	5	24	1	33	38	0	59	9	36	0	34
0	37	5	23	1	36	36	1	1	9	51	0	35
0	38	5	22	1	38	35	1	2	10	6	0	36
0	39	5	21	1	40	34	1	4	10	21	0	37
0	40	5	20	1	43	33	1	5	10	36	0	38
0	41	5	19	1	45	32	1	7	10	51	0	39
0	42	5	18	1	48	31	1	8	11	6	0	40
0	43	5	17	1	50	29	1	10	11	21	0	41
0	44	5	16	1	52	28	1	12	11	36	0	42
0	45	5	15	1	54	27	1	13	11	50	0	43
0	46	5	14	1	57	25	1	15	12	5	0	44
0	47	5	13	1	59	24	1	16	12	19	0	45
0	48	5	12	2	1	23	1	18	12	34	0	46
0	49	5	11	2	4	21	1	20	12	48	0	47
0	50	5	10	2	6	20	1	22	13	2	0	48
0	51	5	9	2	8	19	1	23	13	16	0	48
0	52	5	8	2	10	17	1	25	13	30	0	49
0	53	5	7	2	12	16	1	27	13	44	0	50
0	54	5	6	2	14	15	1	28	13	58	0	51
0	55	5	5	2	16	13	1	30	14	12	0	52
0	56	5	4	2	18	12	1	32	14	26	0	53
0	57	5	3	2	19	11	1	34	14	39	0	53
0	58	5	2	2	21	9	1	36	14	52	0	54
0	59	5	1	2	23	8	1	38	15	5	0	55
1	0	5	0	2	25	9	1	39	15	18	0	56

Tabula equationum Mercurii secunda

Lineae numerorum communes		Equatio argumenti		Longitudo longior			Equatio centri				Longitudo propior	
S	G	G	M	S	G	M	S	G	M	M	S	G
1	1	4	59	2	27	5	1	41	17	31	1	57
1	2	4	58	2	29	4	1	43	17	44	1	58
1	3	4	57	2	31	3	1	44	17	56	1	0
1	4	4	56	2	33	1	1	46	16	9	1	1
1	5	4	55	2	34	1	1	48	16	21	1	2
1	6	4	54	2	36	2	1	49	16	33	1	4
1	7	4	53	2	38	4	1	51	16	45	1	5
1	8	4	52	2	40	6	1	53	16	57	1	6
1	9	4	51	2	41	8	1	54	17	9	1	7
1	10	4	50	2	43	10	1	56	17	21	1	8
1	11	4	49	2	44	12	1	58	17	31	1	9
1	12	4	48	2	45	14	1	59	17	43	1	11
1	13	4	47	2	47	16	2	1	17	54	1	12
1	14	4	46	2	48	18	2	3	18	5	1	13
1	15	4	45	2	49	20	2	4	18	16	1	14
1	16	4	44	2	50	22	2	6	18	27	1	15
1	17	4	43	2	51	24	2	8	18	37	1	16
1	18	4	42	2	52	26	2	9	18	47	1	17
1	19	4	41	2	53	27	2	11	18	57	1	18
1	20	4	40	2	54	29	2	13	19	7	1	19
1	21	4	39	2	55	30	2	14	19	16	1	20
1	22	4	38	2	56	32	2	16	19	25	1	21
1	23	4	37	2	57	34	2	18	19	34	1	22
1	24	4	36	2	58	35	2	19	19	44	1	23
1	25	4	35	2	58	37	2	21	19	53	1	24
1	26	4	34	2	59	38	2	23	20	2	1	25
1	27	4	33	2	59	40	2	24	20	10	1	26
1	28	4	32	2	0	41	2	26	20	16	1	27
1	29	4	31	2	0	43	2	28	20	27	1	28
1	30	4	30	3	1	44	2	29	20	33	1	29

Lineae numerorum communes		Equatio argumenti		Longitudo longior			Equatio centri				Longitudo propior	
S	G	G	M	S	G	M	S	G	M	M	S	G
1	31	4	29	3	1	46	2	31	20	40	1	30
1	32	4	28	3	1	47	2	33	20	47	1	31
1	33	4	27	3	2	48	2	34	20	54	1	32
1	34	4	26	3	2	49	2	36	21	1	1	33
1	35	4	25	3	2	50	2	38	21	7	1	34
1	36	4	24	3	2	50	2	39	21	13	1	35
1	37	4	23	3	2	51	2	41	21	19	1	36
1	38	4	22	3	1	52	2	43	21	24	1	37
1	39	4	21	3	1	53	2	44	21	29	1	38
1	40	4	20	3	1	54	2	46	21	34	1	39
1	41	4	19	3	0	55	2	48	21	38	1	40
1	42	4	18	3	0	56	2	49	21	41	1	41
1	43	4	17	2	59	56	2	50	21	46	1	42
1	44	4	16	2	59	57	2	52	21	49	1	43
1	45	4	15	2	58	58	2	53	21	52	1	44
1	46	4	14	2	58	58	2	55	21	55	1	45
1	47	4	13	2	57	58	2	57	21	57	1	46
1	48	4	12	2	56	58	2	58	21	59	1	47
1	49	4	11	2	55	59	3	0	22	0	1	48
1	50	4	10	2	54	59	3	1	22	1	1	49
1	51	4	9	2	53	59	3	2	22	2	1	50
1	52	4	8	2	52	59	3	3	22	2	1	51
1	53	4	7	2	51	60	3	3	22	1	1	52
1	54	4	6	2	50	60	3	4	22	0	1	53
1	55	4	5	2	49	60	3	4	21	59	1	54
1	56	4	4	2	48	60	3	5	21	58	1	55
1	57	4	3	2	46	60	3	6	21	56	1	55
1	58	4	2	2	45	60	3	6	21	53	1	56
1	59	4	1	2	43	60	3	7	21	50	1	57
2	0	4	0	2	41	60	3	8	21	47	1	57

Tabula Equacionum Mercurii

Introitum communis		Equatio centri					Equatio argumenti					longior propior
S	G	S	G	S	G	M	S	G	M	M	G	M
2	1	3	29	2	39	60	3	8	21	53	1	58
2	2	3	28	2	30	60	3	9	21	38	1	58
2	3	3	27	2	37	60	3	9	21	33	1	58
2	4	3	26	2	34	59	3	9	21	20	1	59
2	5	3	25	2	32	59	3	10	21	21	1	59
2	6	3	24	2	30	59	3	10	21	17	1	59
2	7	3	23	2	28	59	3	11	21	8	2	0
2	8	3	22	2	26	58	3	11	20	1	2	0
2	9	3	21	2	24	58	3	12	20	53	2	0
2	10	3	20	2	22	58	3	12	20	44	2	0
2	11	3	19	2	20	57	3	12	20	37	2	1
2	12	3	18	2	18	57	3	11	20	27	2	1
2	13	3	17	2	16	57	3	11	20	14	2	1
2	14	3	16	2	14	56	3	10	19	2	2	1
2	15	3	15	2	11	56	3	9	19	10	2	1
2	16	3	14	2	9	56	3	8	19	30	2	1
2	17	3	13	2	7	55	3	7	19	29	2	0
2	18	3	12	2	4	55	3	6	19	10	2	0
2	19	3	11	2	2	54	3	5	18	55	2	0
2	20	3	10	1	0	54	3	4	18	40	2	0
2	21	3	39	1	57	53	3	2	18	24	2	0
2	22	3	38	1	51	53	3	1	18	7	1	59
2	23	3	37	1	52	52	2	59	17	50	1	59
2	24	3	36	1	49	52	2	57	17	32	1	58
2	25	3	35	1	45	51	2	55	17	14	1	57
2	26	3	34	1	44	51	2	53	16	55	1	55
2	27	3	33	1	41	50	2	51	16	37	1	53
2	28	3	32	1	38	49	2	48	16	14	1	51
2	29	3	31	1	37	49	2	46	17	33	1	48
2	30	3	30	0	32	48	2	42	17	37	1	45

Introitum communis		Equatio centri					Equatio argumenti					longior propior
S	G	S	G	S	G	M	S	G	M	M	G	M
2	31	3	29	1	30	48	2	34	17	8	1	45
2	32	3	28	1	29	42	2	30	14	44	1	43
2	33	3	27	1	24	44	2	32	14	24	1	41
2	34	3	26	1	21	46	2	29	13	55	1	39
2	35	3	25	1	18	46	2	25	13	24	1	37
2	36	3	24	1	17	47	2	21	13	3	1	34
2	37	3	23	1	12	47	2	17	12	36	1	32
2	38	3	22	1	9	44	2	13	12	4	1	29
2	39	3	21	1	6	44	2	9	11	41	1	26
2	40	3	20	1	3	43	2	7	11	12	1	23
2	41	3	19	1	0	43	2	4	10	43	1	20
2	42	3	18	0	57	43	1	57	10	13	1	17
2	43	3	17	0	54	42	1	54	9	43	1	14
2	44	3	16	0	51	42	1	44	9	12	1	19
2	45	3	15	0	48	42	1	38	8	40	1	7
2	46	3	14	0	45	42	1	32	8	7	1	4
2	47	3	13	0	42	41	1	26	7	34	1	0
2	48	3	12	0	39	41	1	19	7	1	0	56
2	49	3	11	0	37	41	1	16	6	28	0	52
2	50	3	10	0	32	41	1	7	7	53	0	47
2	51	3	9	0	28	41	1	1	7	19	0	43
2	52	3	8	0	25	41	0	55	4	44	0	38
2	53	3	7	0	22	40	0	48	4	10	0	33
2	54	3	6	0	19	40	0	43	3	37	0	28
2	55	3	5	0	16	40	0	37	3	0	0	24
2	56	3	4	0	13	40	0	28	2	30	0	18
2	57	3	3	0	9	40	0	21	1	40	0	14
2	58	3	2	0	6	40	0	14	1	20	0	10
2	59	3	1	0	3	40	0	7	0	30	0	5
2	60	3	0	0	0	40	0	0	0	0	0	0

Tabula equacionum dierum cum noctibus suis

	Capricornus		Aquarius		Pisces		Aries		Taurus		Gemini		Cancer		Leo		Virgo		Libra		Scorpio		Sagittarius	
	Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum		Equacio dierum	
Dies	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.	Ho.	Mi.
1	3	46	0	38	0	9	2	7	4	33	5	17	4	4	2	51	3	43	6	5	7	13	7	5
2	3	37	0	34	0	11	2	12	4	36	5	17	4	1	2	50	3	47	6	10	7	54	7	0
3	3	29	0	31	0	13	2	17	4	39	5	14	3	57	2	50	3	51	6	11	7	54	6	55
4	3	23	0	27	0	17	2	22	4	43	5	13	3	54	2	50	3	55	6	20	7	55	6	50
5	3	14	0	23	0	18	2	27	4	46	5	12	3	50	2	49	3	59	6	27	7	55	6	45
6	3	7	0	21	0	21	2	33	4	49	5	10	3	47	2	50	4	4	6	30	7	56	6	40
7	3	0	0	19	0	23	2	38	4	53	5	8	3	44	2	51	4	8	6	32	7	56	6	34
8	2	52	0	16	0	26	2	42	4	56	5	6	3	41	2	51	4	12	6	40	7	54	6	28
9	2	45	0	14	0	30	2	48	4	58	5	4	3	38	2	52	4	17	6	44	7	51	6	22
10	2	38	0	12	0	33	2	53	4	1	5	1	3	35	2	52	4	22	6	48	7	56	6	16
11	2	31	0	10	0	37	2	54	4	3	5	59	3	32	2	54	4	26	6	53	7	56	6	10
12	2	24	0	8	0	40	3	4	4	6	4	57	3	28	2	56	4	31	6	57	7	55	6	2
13	2	17	0	6	0	44	3	9	4	9	4	55	3	25	2	58	4	36	7	1	7	55	5	58
14	2	10	0	4	0	48	3	15	4	10	4	52	3	22	2	58	4	40	7	5	7	54	5	52
15	2	3	0	3	0	52	3	21	5	11	4	49	3	19	3	0	4	46	7	8	7	53	5	45
16	1	57	0	2	0	56	3	27	5	14	4	46	3	18	3	2	4	50	7	12	7	51	5	38
17	1	51	0	1	1	1	3	31	5	51	4	43	3	13	3	5	4	56	7	16	7	50	5	30
18	1	45	0	0	1	5	3	36	5	17	4	40	5	12	3	7	5	1	7	29	7	58	5	24
19	1	39	0	0	1	9	3	40	5	18	4	37	3	9	3	9	5	6	7	23	7	46	5	16
20	1	33	0	0	1	14	3	45	5	19	4	34	3	7	3	11	5	12	7	36	7	44	5	0
21	1	27	0	0	1	19	3	50	5	19	4	31	3	5	3	14	5	16	7	34	7	41	5	2
22	1	22	0	0	1	23	3	55	5	20	4	28	3	3	3	17	5	20	7	32	7	38	4	55
23	1	16	0	0	1	28	4	0	5	20	4	55	3	1	3	20	5	27	7	37	7	36	4	48
24	1	10	0	0	1	33	4	4	5	20	4	22	2	59	3	23	5	34	7	38	7	32	4	40
25	1	5	0	0	1	37	4	9	5	21	4	19	2	57	3	26	5	37	7	41	7	28	4	32
26	1	1	0	1	1	42	4	13	5	21	4	16	2	56	3	29	5	40	7	43	7	25	4	28
27	0	57	0	2	1	47	4	17	5	21	4	13	2	55	3	31	5	45	7	45	7	21	4	19
28	0	52	0	3	1	52	4	21	5	20	4	10	2	54	3	33	5	50	7	47	7	17	4	9
29	0	47	0	4	1	57	4	25	5	20	4	7	2	53	3	35	5	55	7	49	7	14	4	2
30	0	42	0	6	2	2	4	29	5	20	4		2	52	3	37	6	0	7	51	7	10	3	54

Tabula veri motus luminarium in una hora et in uno medio die

Linee numeri communes		Motus solis in una hora			Motus lune in una hora			Motus solis in uno medio die			Motus lune in uno medio die		
Gradus	Gradus	m	2	3	m	2	3	Gradus	m	2	Gradus	m	2
0	3 60	2	22	30	29	37	13	0	57	0	11	50	53
6	3 54	2	22	33	29	39	19	0	57	1	11	51	43
12	3 48	2	22	31	29	42	6	0	57	2	11	52	50
18	3 42	2	22	38	29	46	17	0	57	3	11	54	31
24	3 36	2	22	55	29	51	11	0	57	10	11	56	44
30	3 30	2	23	15	29	59	31	0	57	17	11	59	48
36	3 24	2	23	27	30	8	34	0	57	26	12	3	25
42	3 18	2	23	44	30	19	43	0	57	29	12	7	53
48	3 12	2	24	7	30	32	15	0	57	38	12	12	54
54	3 06	2	24	34	30	46	53	0	57	49	12	18	47
60	3 00	2	25	8	31	2	55	0	58	3	12	25	[illegible]
66	2 94	2	25	43	31	18	55	0	58	18	12	31	34
72	2 88	2	26	12	31	37	45	0	58	29	12	39	6
78	2 82	2	26	39	31	57	15	0	58	39	12	46	54
84	2 76	2	27	7	32	16	45	0	58	51	12	54	42
90	2 70	2	27	46	32	34	45	0	59	7	13	3	54
96	2 64	2	28	28	33	8	31	0	59	23	13	14	13
102	2 58	2	28	53	33	30	36	0	59	33	13	21	28
108	2 52	2	29	20	33	49	25	0	59	44	13	31	46
114	2 46	2	29	14	34	10	19	1	0	7	13	40	8
120	2 40	2	30	46	34	37	25	1	0	18	13	50	10
126	2 34	2	31	23	34	58	23	1	0	33	13	59	58
132	2 28	2	31	38	35	18	35	1	0	44	14	9	47
138	2 22	2	32	15	35	38	47	1	0	53	14	17	32
144	2 16	2	33	25	35	57	36	1	0	58	14	23	3
150	2 10	2	33	2	36	13	37	1	1	3	14	29	27
156	2 04	2	33	7	36	28	15	1	1	11	14	37	18
162	1 98	2	33	9	36	38	0	1	1	15	14	39	12
168	1 92	2	33	21	36	46	22	1	1	20	14	42	32
174	1 86	2	33	32	36	53	15	1	1	27	14	47	18
180	1 80	2	33	40	36	58	54	1	1	28	14	49	33

Tabula ascensionum in circulo recto

	Capricornus ascensio		Aquarius ascensio		Pisces ascensio		Aries ascensio		Taurus ascensio		Gemini ascensio		Cancer ascensio		Leo ascensio		Virgo ascensio		Libra ascensio		Scorpio ascensio		Sagittarius ascensio	
	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M
1	1	6	33	15	63	4	90	55	118	50	148	50	181	6	213	15	243	4	270	55	298	50	328	5
2	2	11	34	17	64	1	91	50	119	48	149	53	182	11	214	14	244	1	271	50	299	48	329	53
3	3	16	35	19	64	58	92	45	120	46	150	56	183	17	215	19	244	58	272	45	300	46	330	56
4	4	22	36	21	65	55	93	40	121	44	151	59	184	22	216	21	245	55	273	40	301	44	331	59
5	5	28	37	23	66	52	94	35	122	42	153	2	185	28	217	23	246	52	274	35	302	42	333	2
6	6	33	38	24	67	48	95	30	123	40	154	5	186	33	218	24	247	48	275	30	303	40	334	5
7	7	38	39	26	68	45	96	25	124	38	155	9	187	38	219	26	248	45	276	25	304	38	335	9
8	8	43	40	27	69	42	97	20	125	36	156	13	188	43	220	27	249	42	277	20	305	36	336	13
9	9	48	41	28	70	37	98	16	126	35	157	17	189	48	221	28	250	37	278	16	306	35	337	17
10	10	53	42	29	71	32	99	11	127	34	158	21	190	53	222	29	251	33	279	11	307	34	338	21
11	11	58	43	29	72	29	100	6	128	33	159	25	191	58	223	29	252	29	280	6	308	31	339	25
12	13	3	44	30	73	25	101	1	129	32	160	29	193	3	224	29	253	26	281	1	309	32	340	29
13	14	8	45	30	74	21	101	57	130	31	161	33	194	8	225	30	254	21	281	57	310	31	341	33
14	15	13	46	30	75	17	102	52	131	30	162	37	195	13	226	30	255	17	282	52	311	30	342	37
15	16	18	47	30	76	12	103	47	132	30	163	42	196	18	227	30	256	12	283	48	312	30	343	42
16	17	23	48	30	77	8	104	43	133	30	164	47	197	23	228	30	257	8	284	43	313	30	344	47
17	18	27	49	29	78	3	105	39	134	30	165	52	198	27	229	29	258	3	285	39	314	30	345	52
18	19	31	50	28	78	59	106	35	135	30	166	57	199	31	230	28	258	59	286	35	315	30	346	57
19	20	36	51	27	79	54	107	31	136	31	168	2	200	36	231	27	259	54	287	31	316	31	348	2
20	21	39	52	26	80	49	108	27	137	31	169	7	201	39	232	26	260	49	288	27	317	31	349	7
21	22	43	53	25	81	44	109	23	138	32	170	12	202	43	233	25	261	44	289	23	318	32	350	12
22	23	47	54	24	82	40	110	19	139	33	171	17	203	47	234	24	262	40	290	19	319	33	351	17
23	24	51	55	22	83	35	111	15	140	34	172	22	204	51	235	22	263	35	291	15	320	34	352	22
24	25	55	56	20	84	30	112	12	141	36	173	27	205	53	236	20	264	30	292	12	321	36	353	27
25	26	58	57	14	85	27	113	8	142	37	174	33	206	58	237	18	265	27	293	8	322	38	354	32
26	28	1	58	17	86	20	114	4	143	39	175	38	208	1	238	16	266	20	294	4	323	39	355	38
27	29	4	59	14	87	17	115	2	144	41	176	43	209	4	239	14	267	17	295	2	324	40	356	43
28	30	7	60	12	88	14	115	59	145	43	177	49	210	7	240	12	268	14	295	59	325	43	357	47
29	31	10	61	10	89	5	116	56	146	47	178	54	211	10	241	10	269	5	296	56	326	47	358	54
30	32	13	62	7	90	0	117	53	147	47	180	0	212	13	242	7	270	0	297	53	327	47	360	0

Tabula ascensionum ad latitudinem 51 graduum

numeri	Aries ascensiones G	m	partes horarum G	m	Taurus ascensiones G	m	partes horarum G	m	Gemini ascensiones G	m	partes horarum G	m	Cancer ascensiones G	m	partes horarum G	m	Leo ascensiones G	m	partes horarum G	m	Virgo ascensiones G	m	partes horarum G	m
1	0	27	15	5	13	35	17	33	31	3	19	30	58	4	20	31	96	4	19	32	138	40	17	24
2	0	50	15	10	14	5	17	37	31	47	19	41	59	9	20	30	97	32	19	27	140	12	17	19
3	1	15	15	15	14	34	17	42	32	30	19	44	60	17	20	30	98	56	19	23	141	18	17	14
4	1	40	15	20	15	4	17	47	33	14	19	47	61	34	20	29	100	21	19	17	143	4	17	9
5	2	6	15	25	15	34	17	51	33	57	19	51	62	34	20	29	101	44	19	16	144	31	17	4
6	2	31	15	30	16	5	17	56	34	45	19	54	63	44	20	28	103	8	19	13	145	56	16	59
7	2	56	15	35	16	36	18	0	35	32	19	57	64	54	20	28	104	33	19	9	147	21	16	54
8	3	21	15	40	17	7	18	5	36	19	19	0	66	4	20	27	105	58	19	5	148	46	16	49
9	3	46	15	45	17	38	18	10	37	6	20	3	67	14	20	26	107	23	19	1	150	11	16	44
10	4	12	15	50	18	9	18	14	37	53	20	5	68	25	20	25	108	48	18	57	151	36	16	39
11	4	31	15	55	18	41	18	19	38	43	20	7	69	41	20	23	110	12	18	53	153	1	16	34
12	5	2	16	0	19	12	18	23	39	35	20	9	70	57	20	21	111	37	18	49	154	27	16	30
13	5	28	16	5	19	46	18	27	40	26	20	11	72	13	20	19	113	12	18	45	155	[illegible]	16	25
14	5	53	16	10	20	19	18	32	41	17	20	13	73	20	20	17	114	27	18	41	156	11	16	20
15	6	19	16	15	20	52	18	36	42	8	20	15	74	44	20	15	115	52	18	36	158	34	16	15
16	6	45	16	20	21	27	18	41	43	2	20	17	76	1	20	13	117	17	18	32	160	1	16	10
17	7	11	16	25	22	3	18	45	43	56	20	19	77	9	20	11	118	43	18	27	161	28	16	5
18	7	38	16	30	22	38	18	49	44	50	20	21	78	22	20	9	120	9	18	23	162	51	16	0
19	8	4	16	35	23	14	18	53	45	44	20	23	79	52	20	7	121	35	18	19	164	21	15	55
20	8	31	16	39	23	50	18	57	46	39	20	22	81	11	20	5	123	1	18	14	165	50	15	50
21	8	58	16	44	24	24	19	1	47	39	20	26	82	31	20	3	124	26	18	10	167	16	15	45
22	9	21	16	49	25	6	19	5	48	39	20	28	83	51	20	0	125	52	18	5	168	41	15	40
23	9	47	16	54	25	43	19	9	49	34	20	28	85	12	19	57	127	18	18	0	170	6	15	35
24	10	14	16	59	26	20	19	13	50	39	20	29	86	34	19	54	128	44	17	56	171	31	15	3
25	10	41	17	4	27	28	19	16	51	34	20	29	87	54	19	51	130	17	17	51	172	56	15	25
26	10	17	17	9	28	38	19	20	52	44	20	29	89	16	19	47	131	36	17	47	174	29	15	20
27	11	44	17	14	28	19	19	22	53	44	20	30	90	38	19	44	133	37	17	42	175	46	15	15
28	12	5	17	20	28	59	19	27	54	41	20	30	92	0	19	41	134	28	17	37	177	11	15	10
29	12	39	17	29	29	40	19	31	55	50	20	31	93	23	19	37	135	44	17	33	178	36	15	5
30	13	6	17	30	30	20	19	34	56	22	20	31	94	46	19	34	137	20	17	28	180	0	15	0

Residuum tabule in latitudine 51 graduum

	Libra				Scorp				Sagi				Capri				Aquarius				Pisces			
	Asc rect		partes horarum		Asc rect		partes horarum		Asc rect		partes horarum		Asc rect		partes horarum		Asc rect		partes horarum		Asc rect		partes horarum	
	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M
1	181	27	14	55	224	6	12	27	266	31	10	23	304	11	9	29	330	21	10	27	347	22	12	36
2	182	10	14	50	225	32	12	23	268		10	19	305	14	9	30	331	2	10	33	347	40	12	41
3	184	17	14	45	226	58	12	18	269	22	10	16	306	14	9	30	331	42	10	34	348	18	12	46
4	185	40	14	40	228	24	12	13	270	44	10	13	307	10	9	31	332	22	10	40	348	46	12	51
5	187	4	14	35	229	50	12	9	272	6	10	9	308	21	9	31	333	2	10	44	349	13	12	56
6	188	29	14	30	231	16	12	4	273	27	10	6	309	21	9	31	333	40	10	47	349	41	13	1
7	189	54	14	25	232	42	12	0	274	46	10	3	310	21	9	32	334	18	10	51	350	9	13	6
8	191	19	14	20	234	8	11	55	276	7	9	0	311	21	9	33	334	56	10	55	350	36	13	11
9	192	44	14	15	235	34	11	50	277	28	9	57	312	21	9	34	335	33	10	10	351	3	13	16
10	194	10	14	10	236	59	11	46	278	49	9	55	313	21	9	35	336	10	11	3	351	29	13	21
11	195	37	14	5	238	25	11	41	280	7	9	53	314	16	9	36	336	46	11	7	351	55	13	25
12	197	4	14	0	239	51	11	37	281	27	9	51	315	10	9	39	337	22	11	11	352	12	13	30
13	198	27	13	55	241	14	11	33	282	42	9	49	316	4	9	41	337	58	11	15	352	49	13	35
14	199	50	13	50	242	43	11	28	283	59	9	47	316	58	9	43	338	33	11	19	353	11	13	40
15	201	16	13	45	244	8	11	24	285	16	9	45	317	52	9	45	339	8	11	24	353	41	13	45
16	202	40	13	40	245	33	11	19	286	31	9	43	318	43	9	47	339	14	11	29	354	7	13	50
17	204	11	13	35	246	58	11	15	287	48	9	41	319	34	9	49	340	4	11	31	354	33	13	55
18	205	30	13	30	248	23	11	11	289	40	9	39	320	27	9	51	340	47	11	30	354	59	14	0
19	206	55	13	25	249	48	11	7	290	20	9	37	321	16	9	53	341	19	11	41	355	23	14	5
20	208	23	13	21	251	12	11	3	291	37	9	35	322	7	9	55	341	54	11	46	355	44	14	10
21	209	44	13	16	252	37	10	59	292	47	9	34	322	54	9	57	342	22	11	50	356	14	14	15
22	211	14	13	11	254	2	10	55	294	55	9	33	323	41	10	0	342	53	11	55	356	38	14	20
23	212	39	13	6	255	27	10	51	295	7	9	32	324	28	10	3	343	24	12	0	357	4	14	25
24	214	4	13	1	256	50	10	47	296	55	9	31	325	15	10	6	343	55	12	4	357	29	14	30
25	215	29	12	56	258	16	10	44	297	56	9	31	326	2	10	9	344	26	12	9	357	54	14	35
26	216	55	12	51	259	44	10	40	298	37	9	30	326	48	10	13	344	56	12	15	358	20	14	40
27	218	21	12	46	260	4	10	37	299	44	9	30	327	34	10	16	345	26	12	18	358	47	14	45
28	219	44	12	41	262	28	10	33	300	12	9	30	328	4	10	19	345	55	12	23	359	10	14	50
29	221	13	12	36	263	51	10	29	302	0	9	29	328	54	10	23	346	25	12	27	359	35	14	55
30	222	40	12	32	265	4	10	26	303	8	9	29	329	40	10	26	346	4	12	32	360	0	15	0

Tabula ascensionum ultra medium 7mi climatis ad latitudinem 50 graduum et cuius dies longior est 16 horarum equinoctialium et 10 minutorum

Gradus signorum	Aries ascensiones		Partes horarum		Taurus ascensiones		Partes horarum		Gemini ascensiones		Partes horarum		Cancer ascensiones		Partes horarum		Leo ascensiones		Partes horarum		Virgo ascensiones		Partes horarum	
	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M
1	0	26	15	5	14	16	17	26	32	45	19	22	59	50	20	13	97	50	19	15	139	24	17	16
2	0	52	15	10	14	47	17	30	33	29	19	25	61	0	20	12	99	13	19	11	140	28	17	12
3	1	18	15	15	15	19	17	34	34	13	19	28	62	10	20	12	100	34	19	8	142	12	17	7
4	1	44	15	20	15	51	17	38	34	57	19	31	63	20	20	12	101	56	19	4	143	36	17	3
5	2	10	15	24	16	23	17	43	35	41	19	34	64	30	20	11	103	18	19	1	145	0	16	58
6	2	37	15	29	16	55	17	47	36	27	19	37	65	40	20	10	104	40	18	57	146	24	16	54
7	3	4	15	34	17	28	17	51	37	17	19	40	66	50	20	9	106	2	18	54	147	48	16	57
8	3	31	15	39	18	1	17	55	38	55	19	43	68	1	20	8	107	34	18	50	149	12	16	45
9	3	58	15	44	18	34	17	59	38	40	19	46	69	12	20	7	108	47	18	47	150	36	16	47
10	4	25	15	48	19	8	18	4	39	36	19	49	70	13	20	6	110	17	18	43	152	0	16	35
11	4	52	15	53	19	48	18	8	40	31	19	51	71	35	20	5	111	33	18	40	153	24	16	30
12	5	1	15	58	20	23	18	12	41	1	19	53	72	47	20	3	112	16	18	36	154	48	16	26
13	5	47	16	2	20	58	18	16	41	50	19	54	73	59	20	1	114	19	18	32	156	12	16	21
14	6	15	16	7	21	33	18	20	42	41	19	56	75	11	19	59	115	41	18	28	157	36	16	16
15	6	43	16	12	22	9	18	24	43	34	19	58	76	23	19	58	116	5	18	24	159	0	16	12
16	7	2	16	16	22	47	18	28	44	28	19	59	77	38	19	56	118	28	18	20	160	26	16	7
17	7	39	16	21	23	21	18	32	45	24	20	1	78	54	19	54	119	21	18	16	161	48	16	2
18	8	7	16	26	23	57	18	36	46	22	20	3	80	17	19	53	121	14	18	12	163	12	15	58
19	8	35	16	30	24	34	18	40	47	21	20	5	81	24	19	51	122	37	18	8	164	36	15	53
20	9	3	16	35	25	5	18	43	48	21	20	6	82	48	19	44	124	7	18	4	166	0	15	48
21	9	31	16	40	25	49	18	47	49	22	20	7	84	19	19	46	125	24	17	59	167	24	15	44
22	9	59	16	45	26	28	18	50	50	23	20	8	85	32	19	43	126	48	17	51	168	28	15	30
23	10	27	16	49	27	8	18	54	51	24	20	9	86	44	19	40	128	12	17	47	[illegible]	12	15	34
24	10	55	16	54	27	49	18	57	52	26	20	10	88	16	19	37	129	36	17	44	[illegible]	36	15	29
25	11	23	16	58	28	29	19	1	53	28	20	11	89	38	19	34	131	0	17	40	[illegible]	0	15	24
26	11	51	17	3	29	10	19	4	54	30	20	12	91	0	19	31	132	24	17	38	[illegible]	24	15	20
27	12	19	17	7	29	52	19	8	55	32	20	12	92	22	19	28	133	48	17	34	[illegible]	48	15	18
28	12	28	17	12	30	35	19	12	56	34	20	12	92	44	19	27	135	12	17	30	177	12	15	10
29	13	17	17	16	31	18	19	17	57	36	20	13	95	6	19	22	136	36	17	26	[illegible]	36	15	5
30	13	47	17	21	32	2	19	18	58	39	20	13	96	28	19	18	138	0	17	21	180	0	15	0

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Residuum tabule ascensionum ult^a medium 4^ti climatis ... 10 g^d

	Libra				Scorpio				Sagittarius				Capricornus				Aquarius				Pisces			
	Ascensiones		partes horarum		Ascensiones		partes horarum		Ascensiones		partes horarum		Ascensiones		partes horarum		Ascensiones		partes horarum		Ascensiones		partes horarum	
	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M
1	181	24	14	55	223	24	12	34	264	44	10	38	302	22	9	48	328	42	10	45	346	42	13	44
2	182	48	14	50	224	48	12	30	266	56	10	35	303	25	9	48	329	25	10	49	347	12	13	48
3	184	12	14	45	226	12	12	26	267	48	10	32	304	27	9	48	330	8	10	52	347	41	13	53
4	185	36	14	40	227	36	12	22	269	0	10	29	305	29	9	48	330	50	10	56	348	9	13	57
5	187	0	14	36	229	0	12	17	270	22	10	26	306	31	9	49	331	31	10	59	348	37	13	1
6	188	24	14	30	230	24	12	13	271	44	10	23	307	33	9	50	332	11	11	3	349	5	13	6
7	189	48	14	26	231	48	12	9	273	6	10	20	308	34	9	51	332	22	11	6	349	33	13	11
8	191	12	14	21	233	12	12	5	274	28	10	17	309	36	9	52	333	32	11	10	350	1	13	17
9	192	36	14	16	234	36	12	1	275	50	10	14	310	37	9	53	334	11	11	13	350	29	13	20
10	194	0	14	12	236	0	11	57	277	12	10	11	311	38	9	54	334	49	11	17	350	57	13	22
11	195	24	14	0	237	23	11	52	278	32	10	9	312	38	9	55	335	26	11	20	351	21	13	30
12	196	48	14	2	238	46	11	48	279	50	10	7	313	37	9	57	336	3	11	24	351	53	13	34
13	198	12	13	58	240	1	11	44	281	6	10	6	314	37	9	59	336	39	11	28	352	21	13	39
14	199	36	13	53	241	32	11	40	282	22	10	4	315	31	10	1	337	17	11	32	352	49	13	44
15	201	0	13	48	242	55	11	36	283	37	10	2	316	26	10	2	337	51	11	36	353	17	13	48
16	202	24	13	44	244	19	11	32	284	49	10	1	317	18	10	4	338	24	11	40	353	45	13	53
17	203	48	13	34	245	41	11	28	286	1	9	59	318	10	10	6	339	32	11	44	354	13	13	58
18	205	12	13	34	247	9	11	24	287	13	9	57	318	50	10	7	339	37	11	48	354	41	14	2
19	206	36	13	30	248	27	11	20	288	27	9	55	319	47	10	9	340	12	11	53	355	8	14	7
20	208	0	13	25	249	50	11	17	289	37	9	54	320	34	10	11	340	55	11	56	355	37	14	12
21	209	24	13	20	251	13	11	13	290	48	9	53	321	24	10	14	341	26	12	1	356	2	14	16
22	210	48	13	17	252	30	11	10	291	59	9	52	322	7	10	17	341	59	12	5	356	29	14	21
23	212	12	13	11	253	58	11	6	293	17	9	51	322	37	10	20	342	32	12	9	356	56	14	26
24	213	36	13	6	255	20	11	3	294	20	9	50	323	19	10	23	343	5	12	13	357	23	14	31
25	215	0	13	2	256	42	10	59	295	30	9	49	324	3	10	26	343	37	12	17	357	50	14	36
26	216	24	12	57	258	4	10	56	296	40	9	48	324	47	10	24	344	9	12	22	358	16	14	40
27	217	48	12	53	259	36	10	52	297	50	9	48	325	29	10	32	344	47	12	26	358	22	14	45
28	219	12	12	48	260	48	10	48	299	0	9	48	326	10	10	35	345	13	12	34	359	8	14	50
29	220	36	12	44	262	10	10	45	300	10	9	48	326	30	10	38	345	34	12	37	359	44	14	55
30	222	0	12	39	263	32	10	42	301	19	9	47	327	0	10	42	346	19	12	39	360	0	15	0

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Tabula proporcionis

Tabula circulorum seu tabula retrogradationis planetarum et duorum directionum seu stationum. Et incipiunt ... porcionum vel corporum

Gradus porcionis	Minuta porcionis			Gradus porcionis	Minuta porcionis			Gradus porcionis	Minuta porcionis			Luna cum Sole ...		...		...	
G	G	mi	2a	G	G	mi	2a	G	G	mi	2a	G	G	mi	2a	mi	mi
2	358	0	2	62	298	14	52	122	238	44	0	6	354	0	21	0	0
4	356	0	6	64	296	15	47	124	236	46	0	12	348	0	42	0	0
6	354	0	12	66	294	16	41	126	234	47	7	18	342	1	42	0	1
8	352	0	20	68	292	17	38	128	232	47	46	24	336	2	42	1	2
10	350	0	30	70	290	18	36	130	230	48	57	30	330	4	1	1	3
12	348	0	42	72	288	19	36	131	228	49	30	36	324	7	21	1	4
14	346	0	57	74	286	20	36	134	226	50	19	42	318	7	18	2	7
16	344	1	15	76	284	21	36	136	224	51	6	48	312	9	17	2	6
18	342	1	34	78	282	22	36	138	222	51	50	54	306	11	34	2	8
20	340	1	55	80	280	23	36	140	220	52	32	60	300	14	0	3	9
22	338	2	18	82	278	24	36	142	218	53	11	66	294	16	48	3	11
24	336	2	42	84	276	25	36	144	216	53	48	72	288	19	36	4	13
26	334	3	7	86	274	26	36	146	214	54	42	78	282	22	36	4	14
28	332	3	21	88	272	27	40	148	212	54	29	84	276	25	36	5	16
30	330	3	34	90	270	28	42	150	210	55	34	90	270	28	42	6	18
32	328	4	21	92	268	29	44	152	208	56	8	96	264	31	48	6	19
34	326	4	50	94	266	30	46	154	206	56	42	102	258	34	47	7	21
36	324	5	21	96	264	31	48	156	204	57	17	108	252	38	0	8	22
38	322	5	57	98	262	32	50	158	202	57	43	114	246	41	0	8	24
40	320	6	34	100	260	33	52	160	200	58	8	120	240	44	0	9	26
42	318	7	13	102	258	34	54	162	198	58	31	126	234	46	47	9	28
44	316	7	52	104	256	35	56	164	196	58	10	132	228	49	30	10	28
46	314	8	31	106	254	36	58	166	194	59	7	138	222	51	39	10	29
48	312	9	17	108	252	38	0	[illegible]	192	59	21	144	216	53	42	11	30
50	310	10	0	110	250	39	0	170	190	59	33	150	210	57	34	11	30
52	308	10	46	112	248	40	0	172	188	59	43	156	204	57	17	11	31
54	306	11	33	114	246	41	0	174	186	59	51	162	198	58	18	12	31
56	304	12	21	116	244	42	0	176	184	59	56	168	192	59	21	12	32
58	302	13	10	118	242	43	0	178	182	59	58	174	186	59	41	12	32
60	300	[illegible]	0	120	240	44	0	180	180	60	0	180	180	60	0	12	32

S	G	M	Porciones circa
3	34	44	Saturni
3	21	30	Retrogradationis initium
8	4	30	Retrogradationis finis
8	7	16	Stationis 2e finis
S	G	M	Porcio circa Iovis
4	4	7	Initium stationis prime
4	7	11	Retrogradationis initium
5	12	49	Retrogradationis finis
5	21	11	Stationis 2e finis
S	G	M	Porcio circa Martis
7	5	28	Initium stationis prime
7	19	21	Retrogradationis initium
6	10	47	Retrogradationis finis
6	22	33	Stationis 2e finis
S	G	M	Porcio circa Veneris
7	17	11	Initium stationis prime Veneris
7	18	21	Retrogradationis initium
6	17	39	Retrogradationis finis
6	34	9	Stationis 2e finis
S	G	M	Porcio circa Mercurii
4	24	42	Initium stationis prime
4	24	14	Retrogradationis initium
5	2	46	Retrogradationis finis
5	7	6	Stationis 2e finis

Cancri		Longitudo	Latitudo	Leonis		Longitudo	Latitudo	Virginis		Longitudo	Latitudo	Libre		Longitudo	Latitudo	Scorpionis		Longitudo	Latitudo	Sagittarii		Longitudo	Latitudo	Capricorni		Longitudo	Latitudo
Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m
8	12	28	44	8	12	37	34	6	14	47	28	6		46	21	7	1	42	24	4	10	36	32	3	45	24	41
5		28	40	5		30	32	6		47	23	7		44	22	7		42	26	4		34	33	3		22	44
6		30	35	6		36	29	7		43	22	4		41	23	4		40	28	3		30	35	2		16	46
7		29	34	7		37	25	4		40	21	3		37	27	3		36	32	2		27	41	1		8	48
4		28	31	4		32	27	3		37	20	2		30	26	2		31	34	1		19	44			0	0
3		22	25	3		28	24	2		25	24	1		24	28	1		27	38			0	0			0	0
2		16	27	2		21	23	1		19	25			0	0			0	0			0	0			0	0
1		8	23	1		14	23			0	0			0	0			0	0			0	0			0	0
[illegible]		0	22	[illegible]		7	24	[illegible]		12	30	[illegible]		1	31	[illegible]		18	40	[illegible]		10	46	[illegible]		0	49
1		8	23	1		2	25			0	0			0	0			0	0			0	0			0	0
2		18	27	2		9	30	1		4	33			0	0			0	0			0	0			0	0
3		22	25	3		17	32	2		6	35	1		8	37	1		9	44			0	0			0	0
4		26	31	4		18	37	3		11	40	2		0	38	2		0	46	1		1	45			0	0
7		29	34	7		20	38	4		17	43	3		6	42	3		6	48	2		7	48	1		8	48
6		30	35	6		21	41	7		18	47	4		12	47	4		11	48	3		10	49	2		16	46
5		28	40	5		25	43	6		18	45	7		17	48	7		17	48	4		14	48	3		22	44
8		28	44	5		18	47	6		14	48	6		14	49	7		16	48	4		18	45	3		24	41
Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m	Hor	m	m	m
		Longitudo	Latitudo	Geminorum		Longitudo	Latitudo	Tauri		Longitudo	Latitudo	Arietis		Latitudo	Longitudo	Piscium		Longitudo	Latitudo	Aquarii		Longitudo	Latitudo	Capricorni		Longitudo	Latitudo

Tabula quantitatis apparatus lune est propter similia ad latitudinem quinquaginta unius graduum: etc.

Tabula latitudinis lune

Lune numeri communes		Latitudo lune ascendens			2 Latitudo lune et ascendens			Latitudo lune 3 et ascendens			Latitudo lune et descendens			Latitudo lune 5 et descendens			Latitudo lune et est descendens		
G	G	G	M	2e	G	M	2e	G	M	2e	G	M	2e	G	M	2e	G	M	2e
1	29	0	5	13	2	33	24	4	22	22	4	59	58	4	17	7	2	25	17
2	28	0	10	27	2	38	52	4	24	51	4	59	50	4	14	22	2	20	40
3	27	0	15	40	2	44	57	4	21	44	4	59	35	4	11	30	2	16	2
4	26	0	20	13	2	47	39	4	29	24	4	59	17	4	8	37	2	11	22
5	25	0	26	7	2	51	57	4	31	49	4	58	55	4	5	38	2	6	40
6	24	0	21	19	2	57	10	4	33	59	4	58	25	4	2	37	2	1	56
7	23	0	36	31	3	0	21	4	36	4	4	57	43	3	59	28	1	57	8
8	22	0	41	42	3	4	29	4	38	4	4	57	4	3	56	16	1	52	17
9	21	0	46	52	3	8	35	4	40	0	4	56	17	3	53	0	1	47	23
10	20	0	52	1	3	12	39	4	41	52	4	55	25	3	49	40	1	42	27
11	19	0	57	9	3	16	39	4	42	38	4	54	28	3	46	17	1	37	29
12	18	1	2	18	3	20	35	4	45	18	4	53	25	3	42	49	1	32	31
13	17	1	7	23	3	24	26	4	46	52	4	52	17	3	39	17	1	27	33
14	16	1	12	30	3	28	17	4	48	20	4	51	3	3	35	41	1	22	35
15	15	1	17	36	3	32	0	4	49	44	4	49	43	3	32	0	1	17	34
16	14	1	22	37	3	35	41	4	51	3	4	48	20	3	28	17	1	12	30
17	13	1	27	33	3	39	17	4	52	17	4	46	51	3	24	26	1	9	23
18	12	1	32	31	3	42	49	4	53	35	4	45	18	3	20	36	1	2	16
19	11	1	37	29	3	46	17	4	54	28	4	43	38	3	16	39	0	57	9
20	10	1	42	27	3	49	40	4	55	25	4	41	52	3	12	39	0	52	1
21	9	1	47	23	3	53	0	4	56	17	4	40	0	3	8	30	0	46	52
22	8	1	52	17	3	56	16	4	57	4	4	38	4	3	4	29	0	41	42
23	7	2	57	8	3	59	28	4	57	[illegible]	4	36	4	3	0	21	0	36	31
24	6	2	1	56	4	2	37	4	58	25	4	33	59	2	56	10	0	31	19
25	5	2	6	40	4	5	38	4	58	55	4	31	49	2	51	57	0	26	6
26	4	2	11	22	4	8	37	4	59	17	4	29	44	2	47	39	0	20	53
27	3	2	16	2	4	11	34	4	59	35	4	27	44	2	43	17	0	15	40
28	2	2	20	40	4	14	22	4	59	50	4	24	51	2	38	21	0	10	27
29	1	2	25	17	4	17	7	4	59	58	4	22	22	2	34	24	0	5	13
30	0	2	29	52	4	19	47	5	0	0	4	19	46	2	29	52	0	0	0
		11			10			9			8			7			6		

Tabula [illegible] lune ad polos		
gr	gr	po
0	360	0
6	354	0
12	348	0
18	342	0
24	336	1
30	330	1
36	324	1
42	318	2
48	312	2
54	306	2
60	300	3
66	294	3
72	288	4
78	282	5
84	276	5
90	270	6
96	264	6
102	258	7
108	252	8
114	246	8
120	240	9
126	234	9
132	228	10
138	222	10
144	216	11
150	210	11
156	204	11
162	198	12
168	192	12
174	186	12
180	180	12

Tabula eclipsis lune in longitudine [illegible]				
gr	m	pu	gr	m
31	0	0	0	0
28	18	1	12	39
25	35	2	10	30
22	52	3	20	25
20	10	4	33	33
17	28	5	26	36
14	41	6	29	36
12	3	7	28	34
9	20	8	29	33
6	38	9	30	10
3	55	10	30	45
1	3	11	30	59
0	0	12	31	0

Tabula eclipsis solis in longitudine [illegible]				
gr	m	pu	gr	m
34	0	0	0	0
31	18	1	11	16
28	35	2	18	25
25	33	3	22	2
23	10	4	24	50
20	20	5	24	9
17	45	6	29	0
14	3	7	30	30
12	20	8	31	56
9	38	9	32	30
6	55	10	33	56
4	13	11	33	44
1	30	12	33	48
0	0	13	34	0

Pars quadrati [illegible] ad solem et lunam				
pu	pu	m	pu	m
1	0	20	0	30
2	1	0	1	10
3	2	47	2	8
4	3	40	3	10
5	4	40	4	20
6	5	40	5	30
7	6	40	6	45
8	8	0	8	0
9	9	20	9	10
10	10	40	10	20
11	11	40	11	20
12	12	0	12	0

Tabula [illegible] eclipsis solis et lune				
pu	pu	m	pu	m
1	0	20	0	30
2	1	0	1	10
3	1	50	2	5
4	2	40	3	10
5	3	20	4	20
6	4	40	5	30
7	5	50	6	42
8	7	0	8	0
9	8	10	9	10
10	9	20	10	20
11	10	20	11	20
12	12	0	12	0

Tabula [illegible] eclipsis			
[illegible]	[illegible]	[illegible]	[illegible]
0	90	9	0
1	67	43	0
2	50	63	0
3	49	50	0
4	42	54	0
5	35	50	0
6	31	46	0
7	26	43	0
8	21	39	0
9	16	36	0
10	11	32	0
11	6	29	0
12	2	26	90
13	0	23	64
14	0	21	52
15	0	19	43
16	0	17	36
17	0	12	29
18	0	10	22
19	0	4	16
20	0	4	10
21	0	2	4

Tabula eclipsis solis ad longitudinem longiorem								Tabula eclipsis solis ad longitudinem propiorem								Tabula eclipsis solis ad longiorem longitudinem							
Portio latitudinis propter elongationes				puncta eclipsis	minuta casus			Portio latitudinis propter elongationes				puncta eclipsis	minuta casus			Argumentum latitudinis lune mediane				puncta eclipsis	minuta casus		
Gr	Mi	Gr	Mi	pt	Mi	Mi	2a	Gr	Mi	Gr	Mi	pt	Mi	Mi	2a	Gr	Mi	Gr	Mi	pt	Mi	Mi	2a
6	37	173	23	0	0	0	0	7	1	172	59	0	0	0	0	359	30	180	30	11	32	30	41
6	30	173	30	0	11	5	30	7	0	173	0	0	17	7	16	359	0	181	0	9	29	30	27
6	0	174	0	1	5	13	7	6	30	173	30	2	9	14	11	358	30	181	30	8	28	30	7
5	30	174	30	1	55	17	10	6	0	174	0	2	0	18	32	358	0	182	0	7	27	29	28
5	0	175	0	2	45	19	10	5	30	174	30	2	53	21	37	357	30	182	30	6	26	28	39
4	30	175	30	3	37	22	41	5	0	175	0	3	45	22	2	357	0	183	0	6	13	27	21
4	0	176	0	4	29	24	41	4	30	175	30	4	19	26	12	356	30	183	30	5	21	26	15
3	30	176	30	5	21	16	15	4	0	176	0	5	28	27	13	356	0	184	0	4	29	24	41
3	0	177	0	6	13	27	11	3	30	176	30	6	20	29	17	355	30	184	30	3	37	22	41
2	30	177	30	7	6	28	43	3	0	177	0	7	13	30	10	355	0	185	0	2	45	20	10
2	0	178	0	7	49	24	28	2	30	177	30	8	7	31	31	354	30	185	30	1	55	17	10
1	30	178	30	8	48	30	7	2	0	178	0	8	16	32	41	354	0	186	0	1	5	13	7
1	0	179	0	9	29	30	31	1	30	178	30	9	34	32	49	353	30	186	30	0	11	5	30
0	30	179	30	10	32	30	41	1	0	179	0	10	48	33	15	353	0	187	0	0	0	0	0
0	0	180	0	10	45	30	51	0	30	179	30	11	30	33	30								
59	30	180	30	11	32	30	51	0	0	180	0	12	48	33	34								

[illegible]

Tabula eclipsis lune ad propinquiorem longitudinem

Latitudo lune				puncta eclipsis	minuta casus			minuta more	
Gr	Mi	Mi	2a	pt	Mi	Mi	2a	Mi	2a
9	11	52	0	0	0	0	0	0	0
8	43	50	[illegible]	1	0	17	36	0	0
8	18	48	5	2	0	22	39	0	0
7	46	45	38	3	0	22	16	0	0
7	17	53	17	4	0	24	47	0	0
6	46	40	43	5	0	30	17	0	0
6	29	38	17	6	0	36	22	0	0
5	53	35	48	7	0	39	5	0	0
5	22	33	22	8	0	41	12	0	0
4	55	30	53	9	0	43	5	0	0
4	26	28	22	10	0	45	44	0	0
4	58	22	28	11	0	46	12	0	0
3	30	23	30	12	0	47	30	0	0
3	2	21	3	13	0	48	11	10	27
2	24	18	37	14	0	35	44	44	23
2	5	16	8	15	0	33	44	17	5
1	27	13	40	16	0	32	5	19	7
1	9	11	13	17	0	31	9	27	39
1	41	8	45	18	0	30	27	21	49
0	12	6	18	19	0	29	58	22	39
0	44	3	50	20	0	29	41	23	11
0	16	1	3	21	0	29	31	23	28
0	0	0	0	22	0	20	24	23	30

Tabula eclipsis solis ad longitudinem propriorum

Argumentum latitudinis septentrionalis G	m	Argumentum latitudinis meridionalis G	m	puncta eclipsis	m	minuta casus m	2ᵉ
359	30	180	30	11	30	33	30
359	0	181	0	10	27	33	15
358	30	181	30	9	47	32	45
358	0	182	0	8	56	32	15
357	30	182	30	8	7	31	31
357	0	183	0	7	12	30	19
356	30	183	30	6	20	29	17
356	0	184	0	5	28	27	13
355	30	184	30	4	35	26	12
355	0	185	0	3	45	24	2
354	30	185	30	2	53	21	17
354	0	186	0	2	0	18	32
353	30	186	30	1	9	14	16
353	0	187	0	0	17	10	16
352	30	187	30	0	0	0	0

Tabula latitudinis lune et sic in tabulis eclipsis ad longitudinem longiorum

Argumentum latitudinis septentrionalis S	G	S	G	Argumentum latitudinis meridionalis S	G	S	G	latitudo lune G	m	2ᵉ
0	0	6	0	12	0	6	0	0	0	0
0	1	5	29	11	29	6	1	0	5	13
0	2	5	28	11	28	6	2	0	10	26
0	3	5	27	11	27	6	3	0	15	41
0	4	5	26	11	26	6	4	0	20	53
0	5	5	25	11	25	6	5	0	26	10
0	6	5	24	11	24	6	6	0	31	13
0	7	5	23	11	23	6	7	0	36	31
0	8	5	22	11	22	6	8	0	41	42
0	9	5	21	11	21	6	9	0	46	52
0	10	5	20	11	20	6	10	0	52	1
0	11	5	19	11	19	6	11	0	57	9
0	12	5	18	11	18	6	12	1	2	16
0	13	5	17	11	17	6	13	1	7	23
0				11						

Tabula eclipsis lunaris ad longitudinem longiorum

Argumentum latitudinis G	m	G	m	puncta eclipsis	m	minuta casus m	2ᵉ	minuta more m	2ᵉ
11	0	169	0	0	0	0	0	0	0
10	30	169	30	0	40	12	10	0	0
10	0	170	0	1	40	29	30	0	0
9	30	170	30	2	40	24	32	0	0
9	0	171	0	3	32	28	0	0	0
8	30	171	30	4	35	31	13	0	0
8	0	172	0	5	30	34	0	0	0
7	30	172	30	6	21	36	27	0	0
7	0	173	0	7	23	38	42	0	0
6	30	173	30	8	21	40	28	0	0
6	0	174	0	9	20	43	11	0	0
5	30	174	30	10	14	44	36	0	0
5	0	175	0	11	14	42	12	0	0
4	30	175	30	12	11	46	4	0	0
4	0	176	0	13	9	34	42	1	21
3	30	176	30	14	7	36	1	13	47
3	0	177	0	15	4	31	44	15	48
2	30	177	30	16	2	30	38	17	40
2	0	178	0	17	0	30	31	19	4
1	30	178	30	17	57	29	3	20	12
1	0	179	0	18	53	29	52	20	12
0	30	179	30	19	50	29	19	21	56
0	0	180	0	20	46	29	16	21	12

Tabula eclipsis lune

m	0	0	0	0	0	0	0	0	0	0	0	0	0	35	16	32	34	18	2	12	52	13	16
minuta more	0	0	0	0	0	0	0	0	0	0	0	0	0	12	17	20	22	24	2	27	27	28	28
2ᵉ	0	9	10	35	53	42	52	13	25	40	29	25	29	47	17	2	27	20	35	36	35	23	20
minuta casus	0	19	27	32	36	40	43	47	49	51	53	55	56	55	42	40	38	37	36	35	35	35	35
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
puncta eclipsis	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21
	36	34	43	46	49	56	59	3	6	9	13	15	19	23	26	29	33	36	40	40	43	46	0
latitudo	33	60	57	54	51	48	45	42	40	31	38	32	28	25	22	19	16	13	10	7	4	1	0
lune	25	41	7	33	58	24	49	17	41	7	33	57	21	51	10	53	9	36	2	28	29	20	0
	12	11	11	10	9	9	8	8	7	7	6	5	5	4	4	3	3	2	2	1	0	0	0

Tabula eclipsis lunaris ad latitudinem longiorem

g	m	g	m	m	pr	m	m	m	2
13	0	167	0	0	26	12	25	0	0
12	30	167	30	1	13	20	52	0	0
12	0	168	0	2	2	26	7	0	0
11	30	168	30	2	50	34	23	0	0
11	0	169	0	3	36	34	27	0	0
10	30	169	30	4	44	30	0	0	0
10	0	170	0	5	29	41	20	0	0
9	30	170	30	6	10	43	26	0	0
9	0	171	0	6	54	45	21	0	0
8	30	171	30	7	41	49	27	0	0
8	0	172	0	8	31	49	28	0	0
7	30	172	30	9	26	54	6	0	0
7	0	173	0	10	11	52	24	0	0
6	30	173	30	10	54	54	9	0	0
6	0	174	0	11	43	55	20	0	0
5	30	174	30	12	37	47	14	9	7
5	0	175	0	13	27	43	53	14	9
4	30	175	30	14	25	40	41	7	27
4	0	176	0	15	0	39	9	49	57
3	30	176	30	15	50	37	50	21	7
3	0	177	0	16	38	36	51	23	32
2	30	177	30	17	21	36	0	24	49
2	0	178	0	18	32	32	31	21	49
1	30	178	30	19	5	37	7	26	32
1	0	179	0	20	54	34	49	27	16
0	30	179	30	21	43	34	40	27	16
0	0	180	0	21	31	34	31	27	27

Tabula eclipsis lunaris ad latitudinem longiorem

g	m	g	m	m	pr	m	m	m	2
360	0	180	0	20	46	29	56	21	22
359	30	180	30	19	50	29	19	21	49
359	0	180	0	18	53	29	22	21	52
358	30	181	30	17	57	30	3	20	12
358	0	182	0	17	0	30	31	20	19
357	30	182	30	16	2	31	38	19	38
357	0	183	0	15	5	33	44	17	48
356	30	183	30	14	7	34	1	17	24
356	0	184	0	13	0	36	44	13	22
355	30	184	30	12	11	42	4	10	0
355	0	185	0	11	4	44	20	0	0
354	30	185	30	10	16	43	36	0	0
354	0	186	0	9	20	42	11	0	0
353	30	186	30	8	21	40	28	0	0
353	0	187	0	7	23	28	40	0	0
352	30	187	30	6	21	36	20	0	0
352	0	188	0	5	30	34	10	0	0
351	30	188	30	4	32	31	13	0	0
351	0	189	0	3	35	28	7	0	0
350	30	189	30	2	40	42	32	0	0
350	0	190	0	1	40	49	30	0	0
349	30	190	30	0	40	12	10	0	0
349	0	191	0	0	0	0	0	0	0

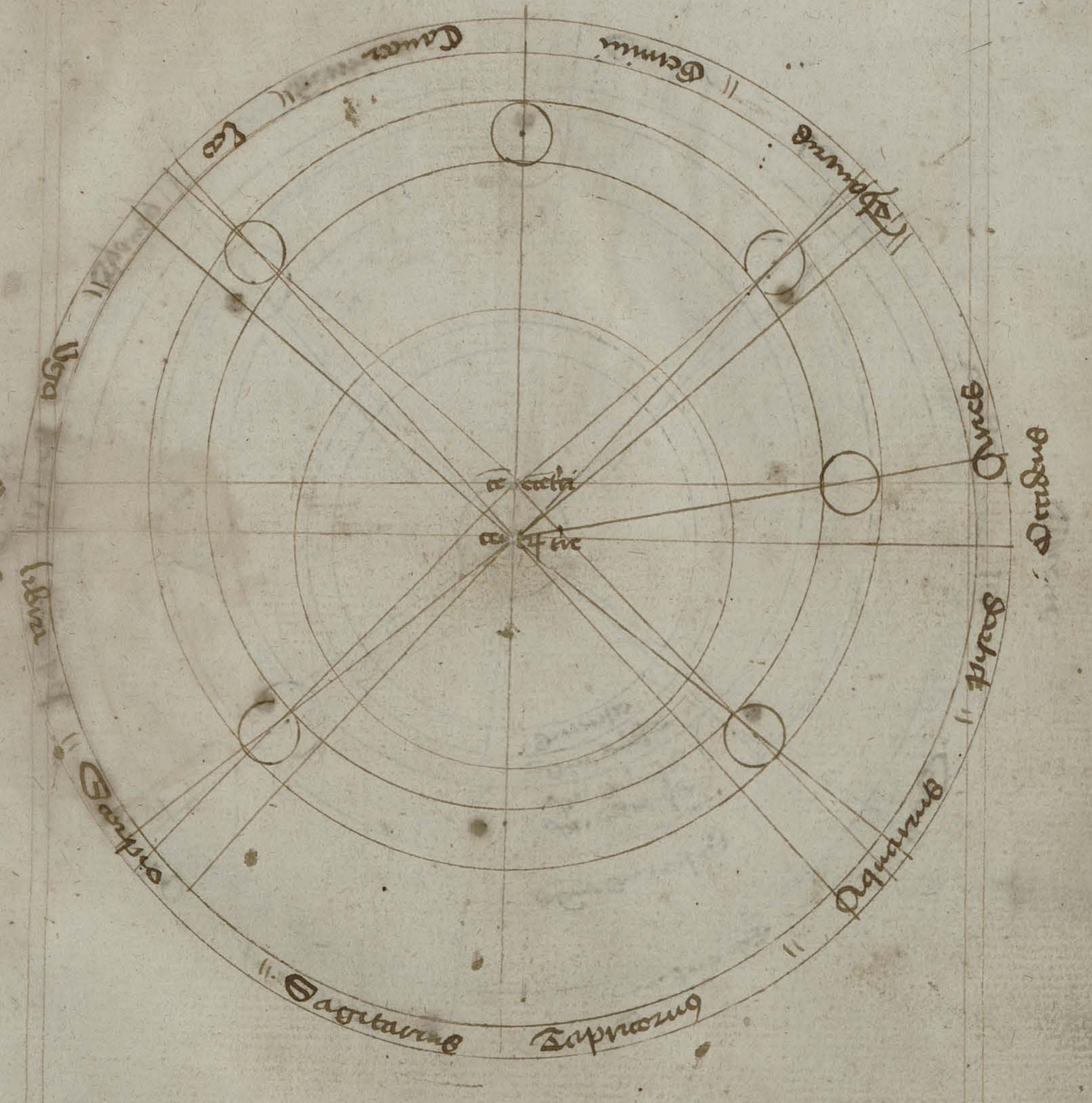
Tabula eclipsis lunaris ad longitudinem propiorem

g	m	g	m	m	pr	m	m	m	2
360	0	180	0	21	31	34	31	27	27
359	30	180	30	21	43	34	40	27	16
359	0	181	0	19	54	34	49	27	22
358	30	181	30	19	5	37	7	26	32
358	0	182	0	18	15	37	31	21	47
357	30	182	30	17	17	36	0	24	49
357	0	183	0	16	38	36	51	23	32
356	30	183	30	15	50	37	50	21	57
356	0	184	0	15	0	39	9	49	57
355	30	184	30	14	27	40	54	7	27
355	0	185	0	13	24	42	53	14	9
354	30	185	30	12	27	47	14	9	7
354	0	186	0	11	43	45	51	0	0
353	30	186	30	10	54	54	9	0	0
353	0	187	0	10	11	52	44	0	0
352	30	187	30	9	26	54	6	0	0
352	0	188	0	8	31	49	28	0	0
351	30	188	30	7	41	47	25	0	0
351	0	189	0	6	44	45	21	0	0
350	30	189	30	6	10	43	26	0	0
350	0	190	0	5	11	41	27	0	0
349	30	190	30	4	38	30	0	0	0
349	0	191	0	3	36	34	27	0	0
348	30	191	30	2	50	30	22	0	0
348	0	192	0	2	2	26	7	0	0
347	30	192	30	1	13	27	52	0	0
347	0	193	0	0	26	12	25	0	0

Tabula possibilitatis eclipsis solis et lune ad regiones latitudinis lune

Meridionalis	0	0	5	49	50	51	52	53	54	55	56	57	58	59	60	lune in eclipsi dicitur meridionalis
Septentrionalis Sol	0	1	2	3	4	5	6	7	8	9	10	11	12			lune in eclipsi dicitur meridionalis ante
Meridionalis Sol	2	49	50	51	52	53	54	55	56	57	58	59	60			lune in eclipsi dicitur addenda ante
Septentrionalis	0	0	3	1	2	3	4	5	6	7	8	9	10	11	12	lune ... addenda ante minor

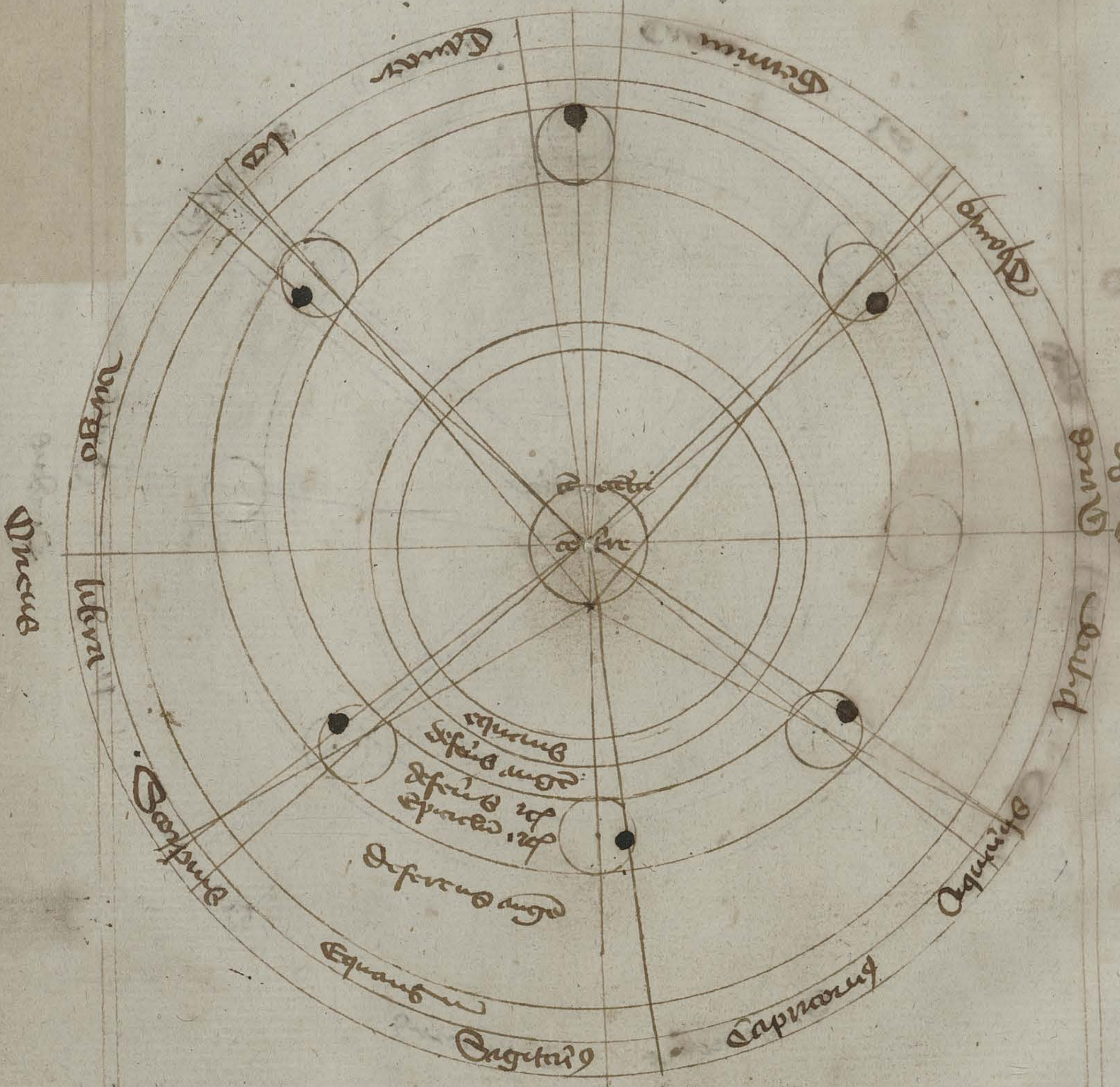
Theorica pnc spera — Ppnus Solis



Sup capitulo — Circulus ectricus

Theorica seu Spera

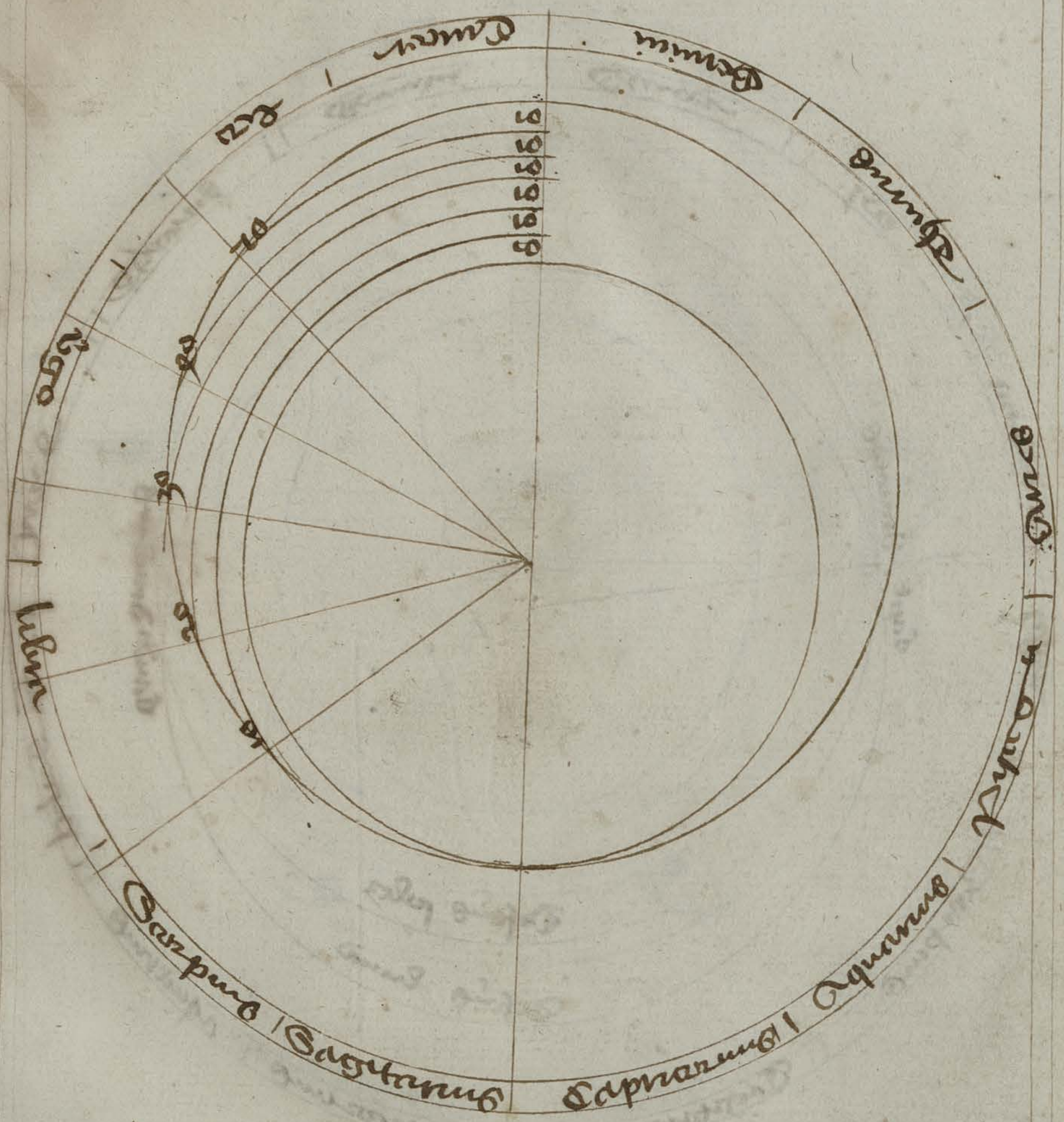
Apus lune planete



Sup epiciclum

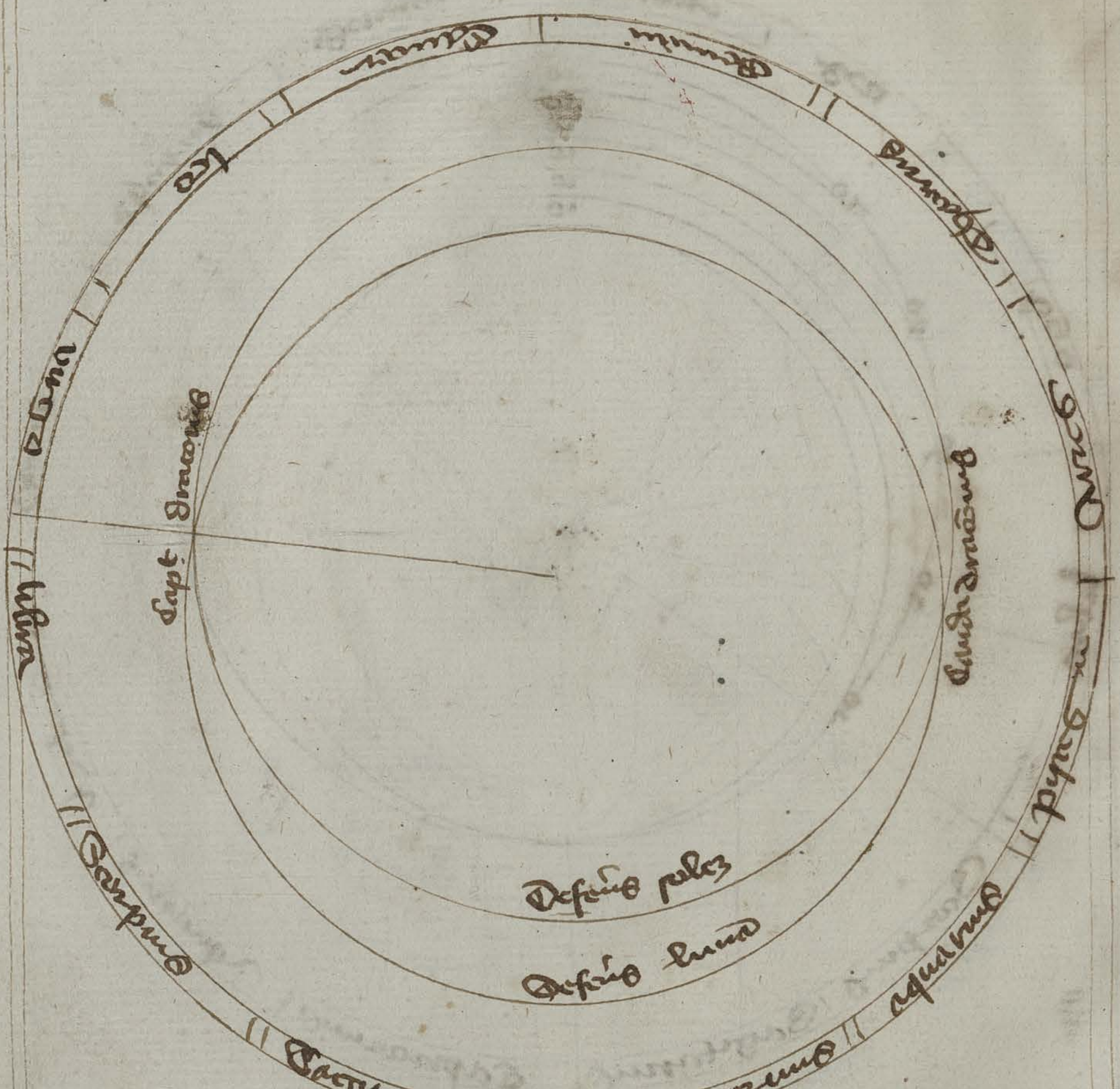
Medius motus lune

Theorica motor | Motus lune



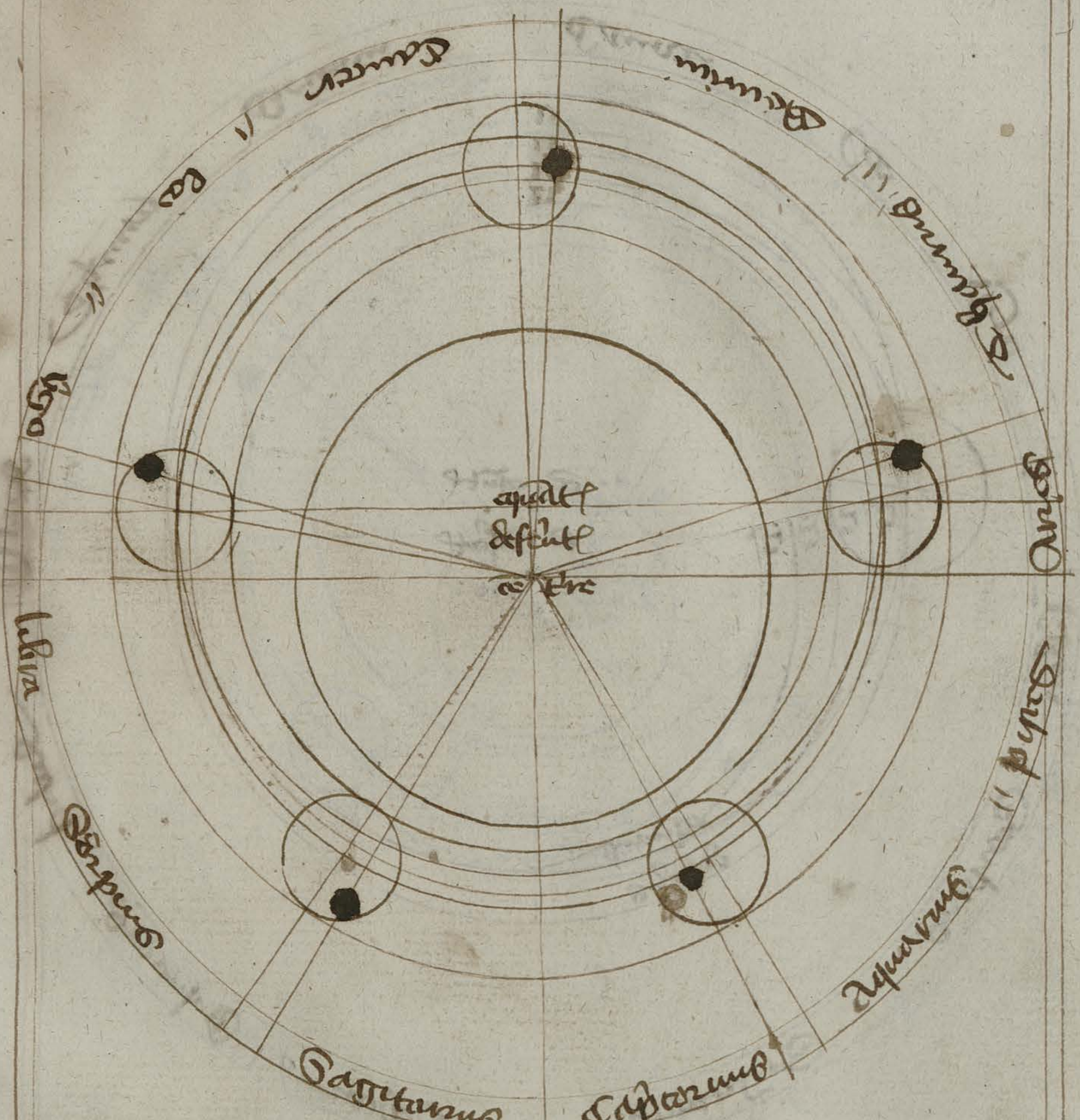
Sup tertium | Dicitur cum motu

Theorica capitis et caude draconis



Capitulo sequenti & Capite caude &

Theorica trium superiorum

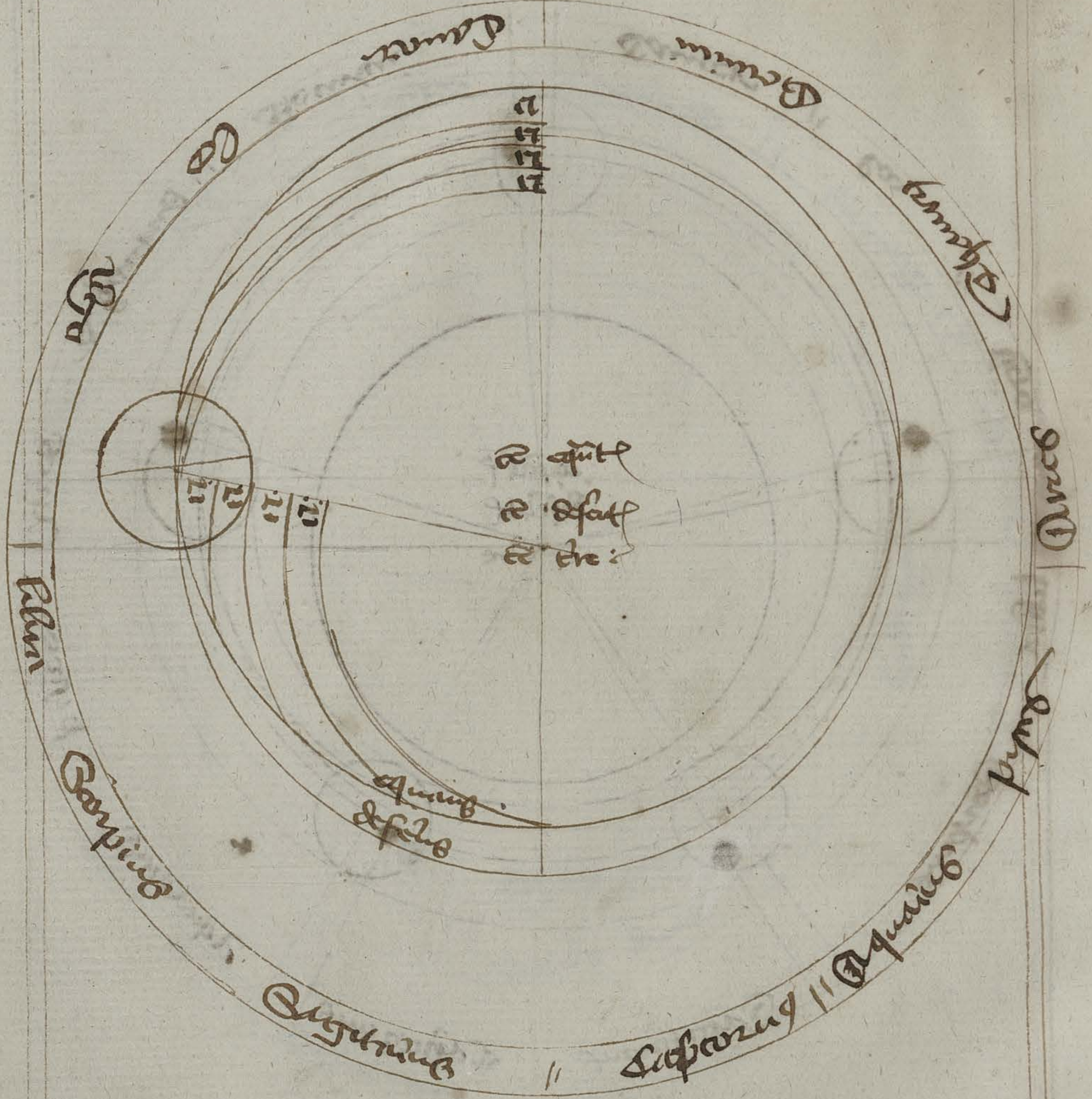


Capitulum Saturni

Stellarum superiorum

Theorica iiii^or superiorum

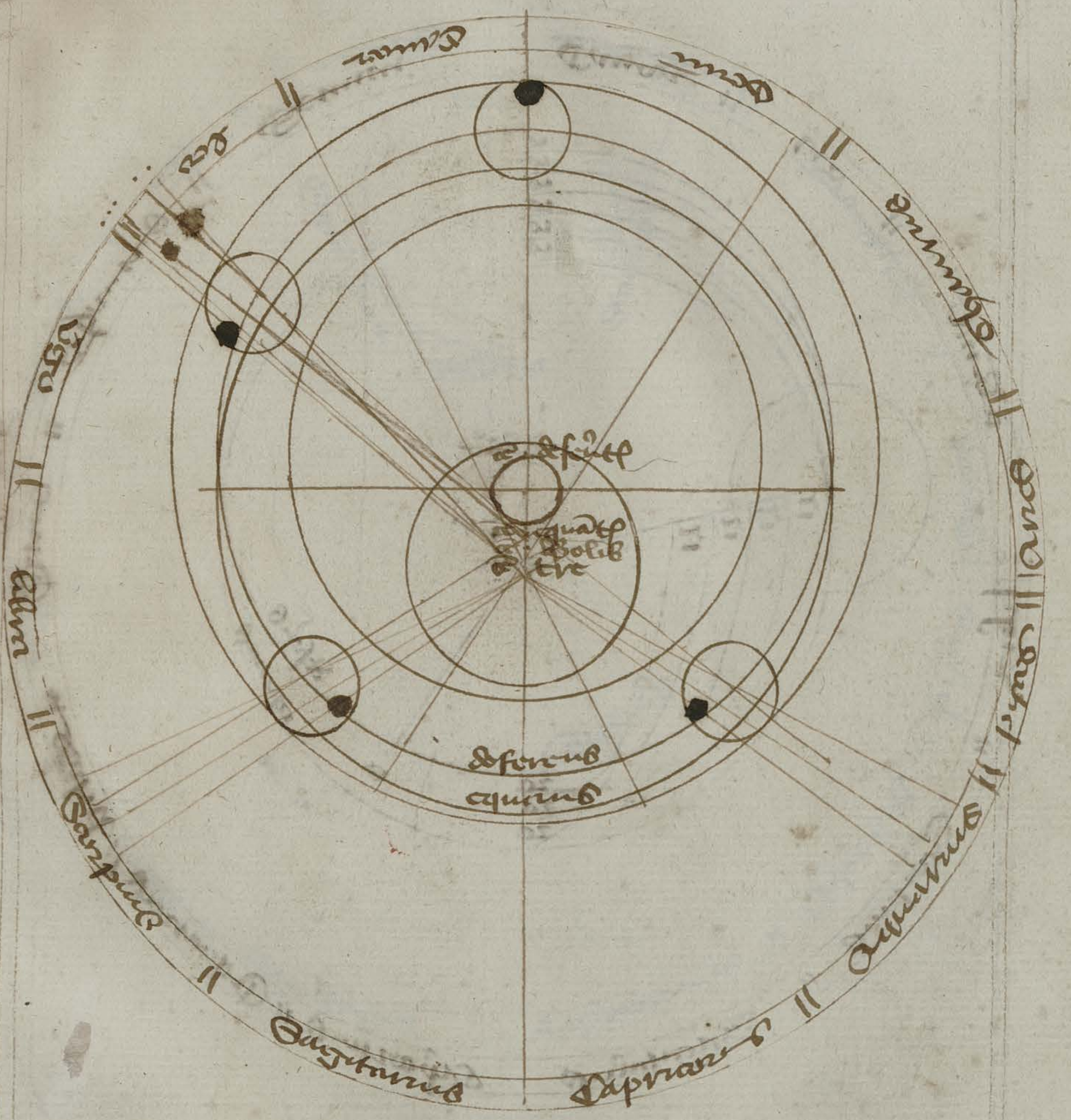
Trium superiorum



Circulus tertius differencie

Eccentrici ut patet in figura

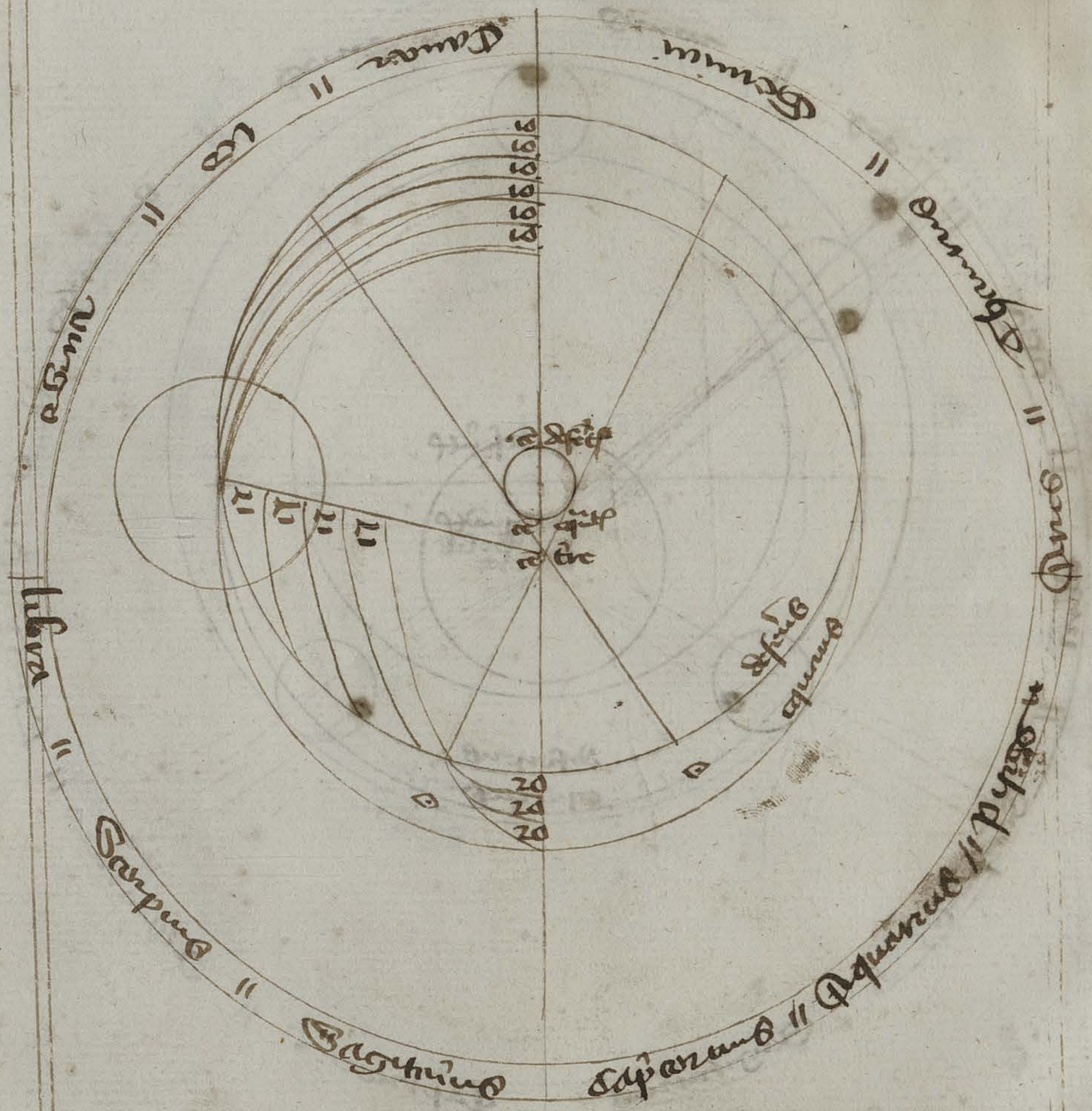
Theorica planete — Mercurii nulla [illegible]



Terra in [illegible] — Mercurius [illegible]

Theorica motus [illegible]

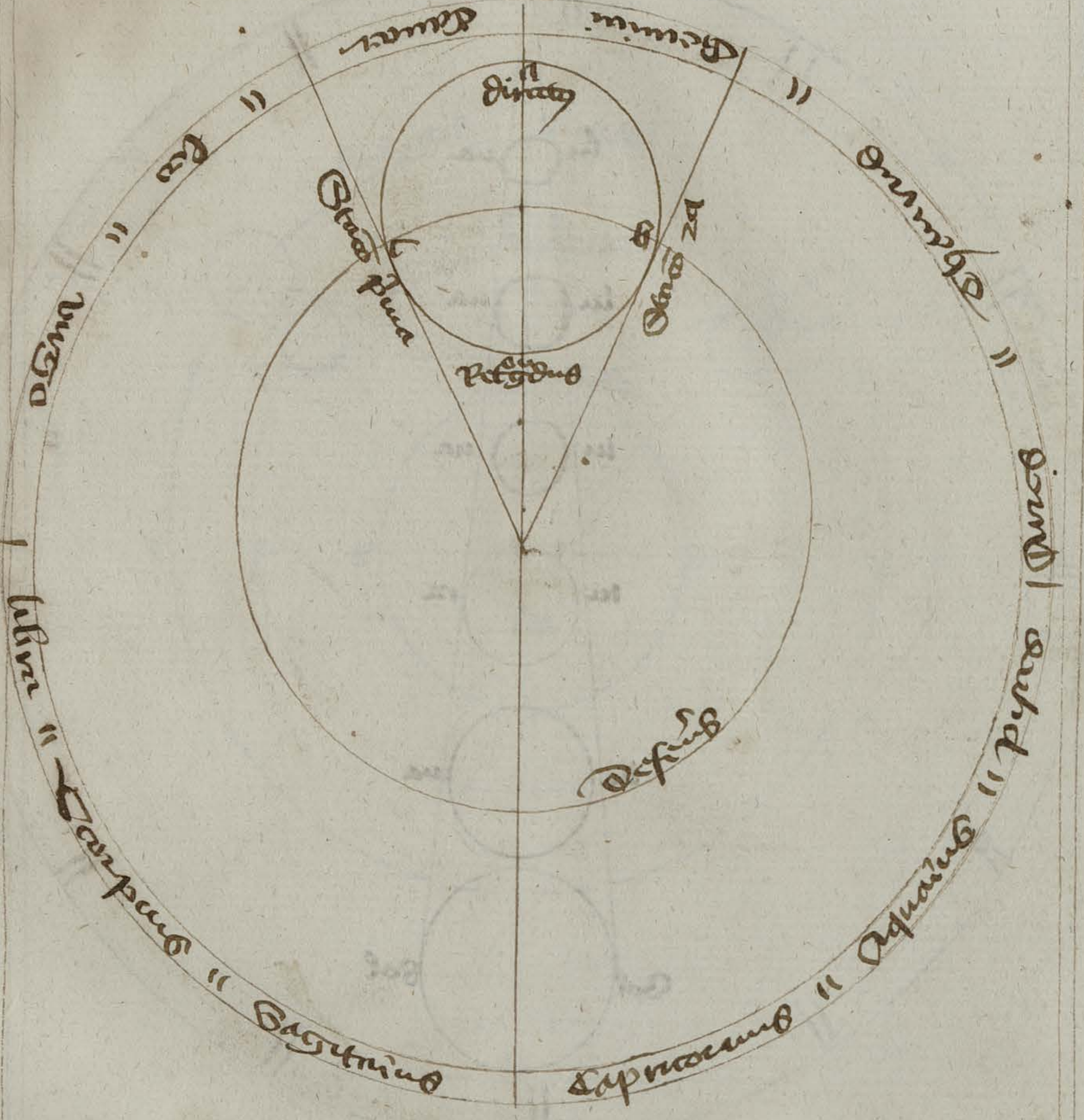
Primum Mercurii



[illegible]

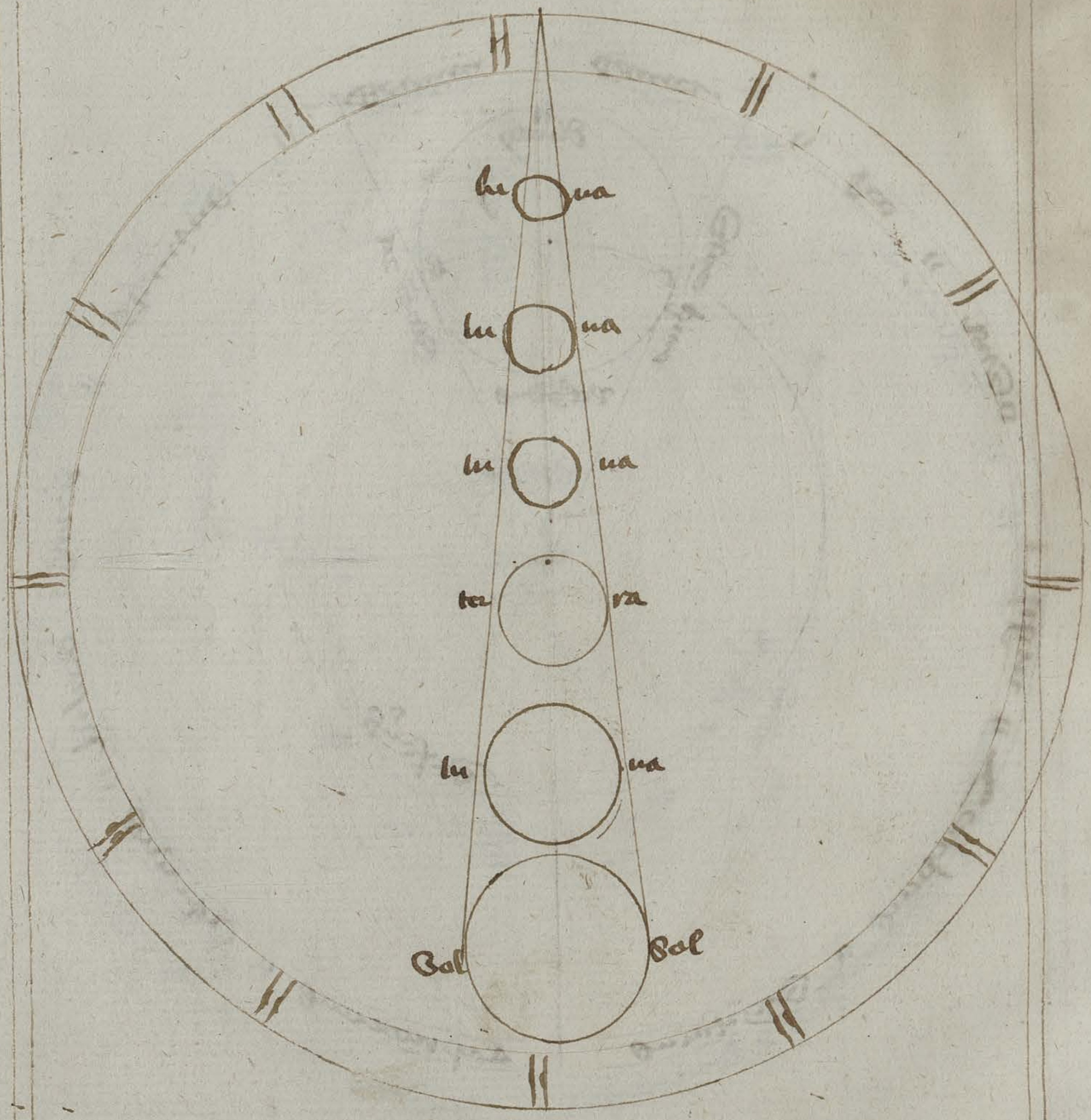
Quarta [illegible]

Theorica de retrogradacione | De solis spera



Sex capitulum | Sexti de retrogradacione

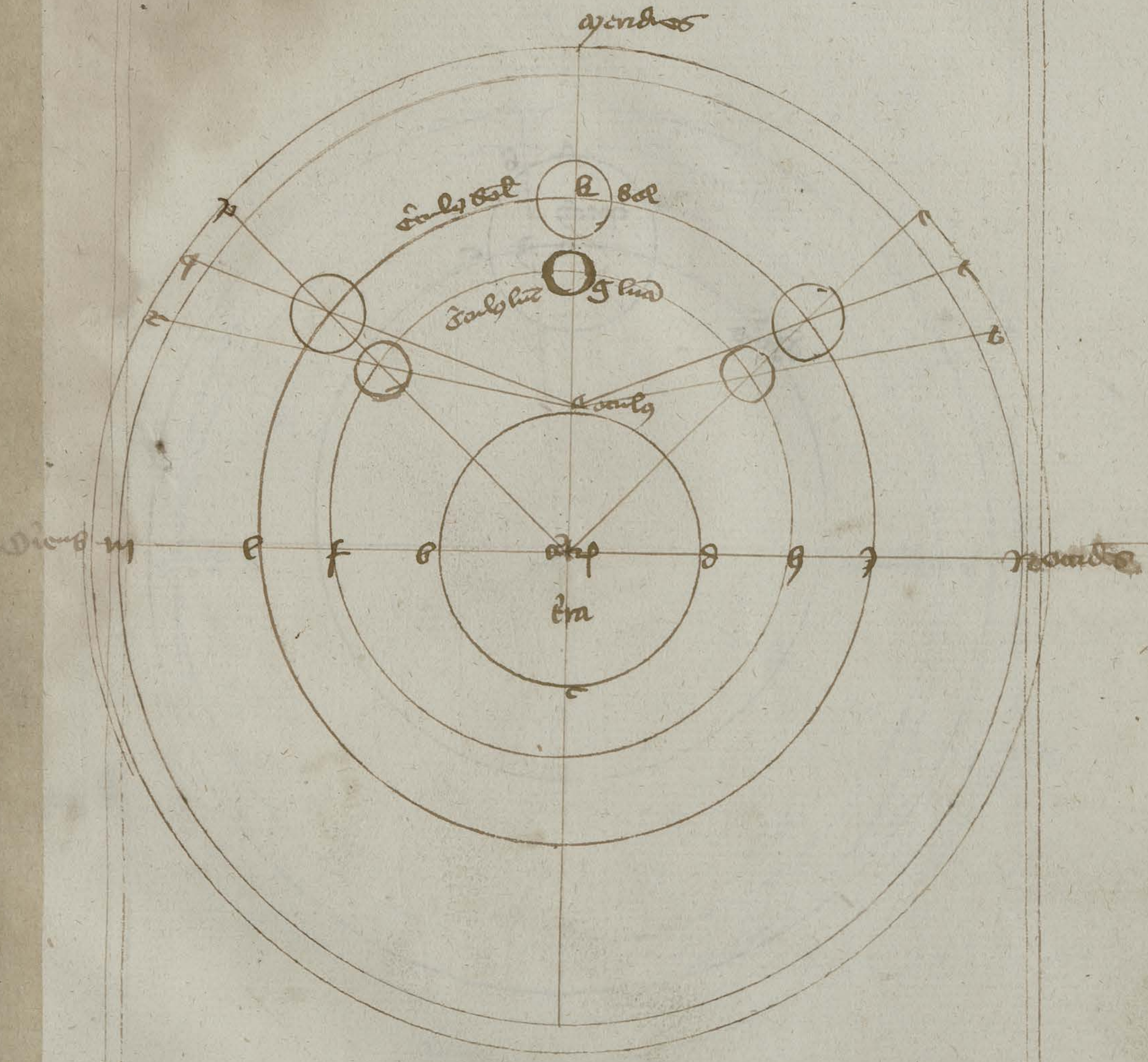
Theorica



Cum illud refert

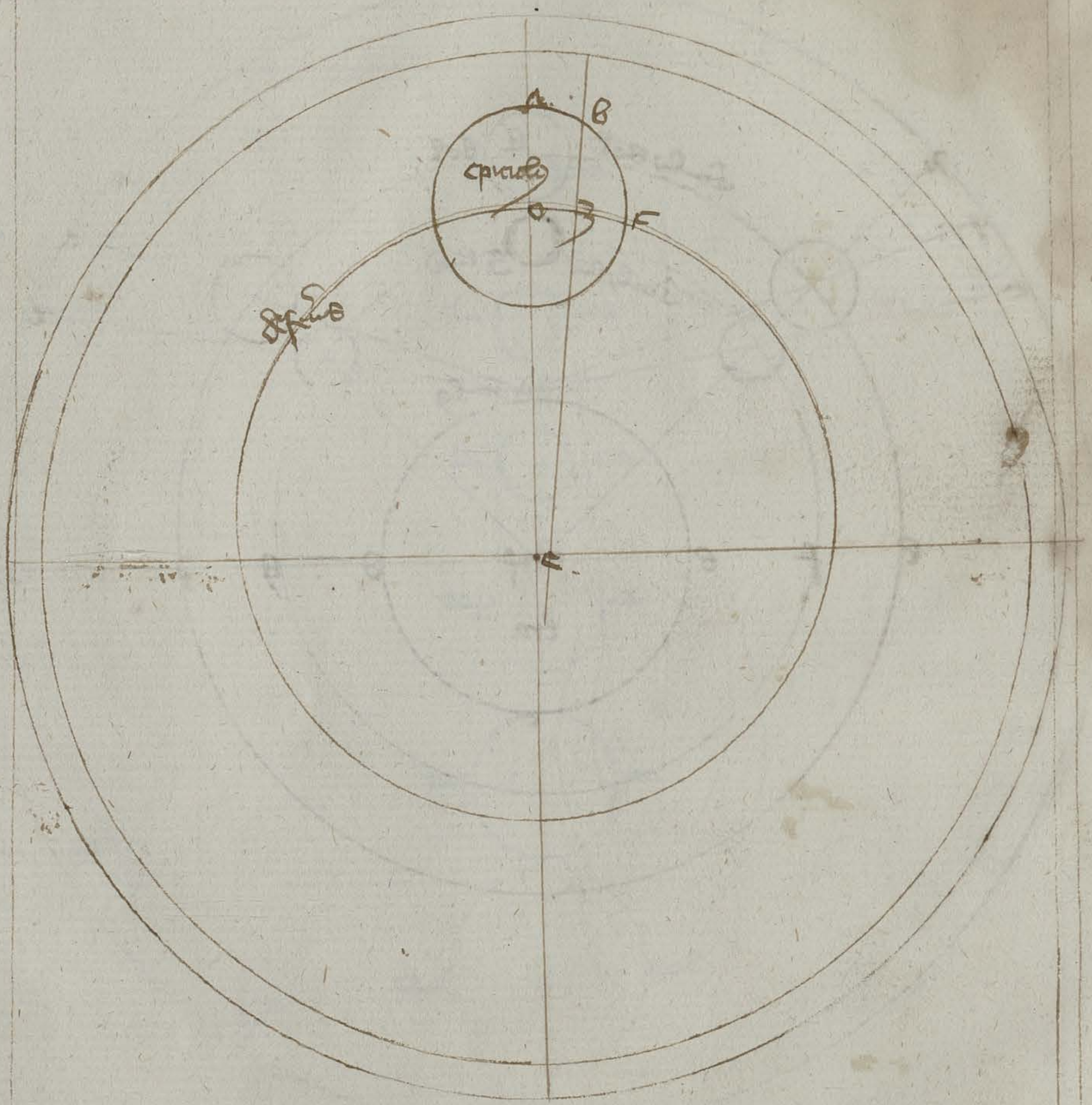
Sphaera motus

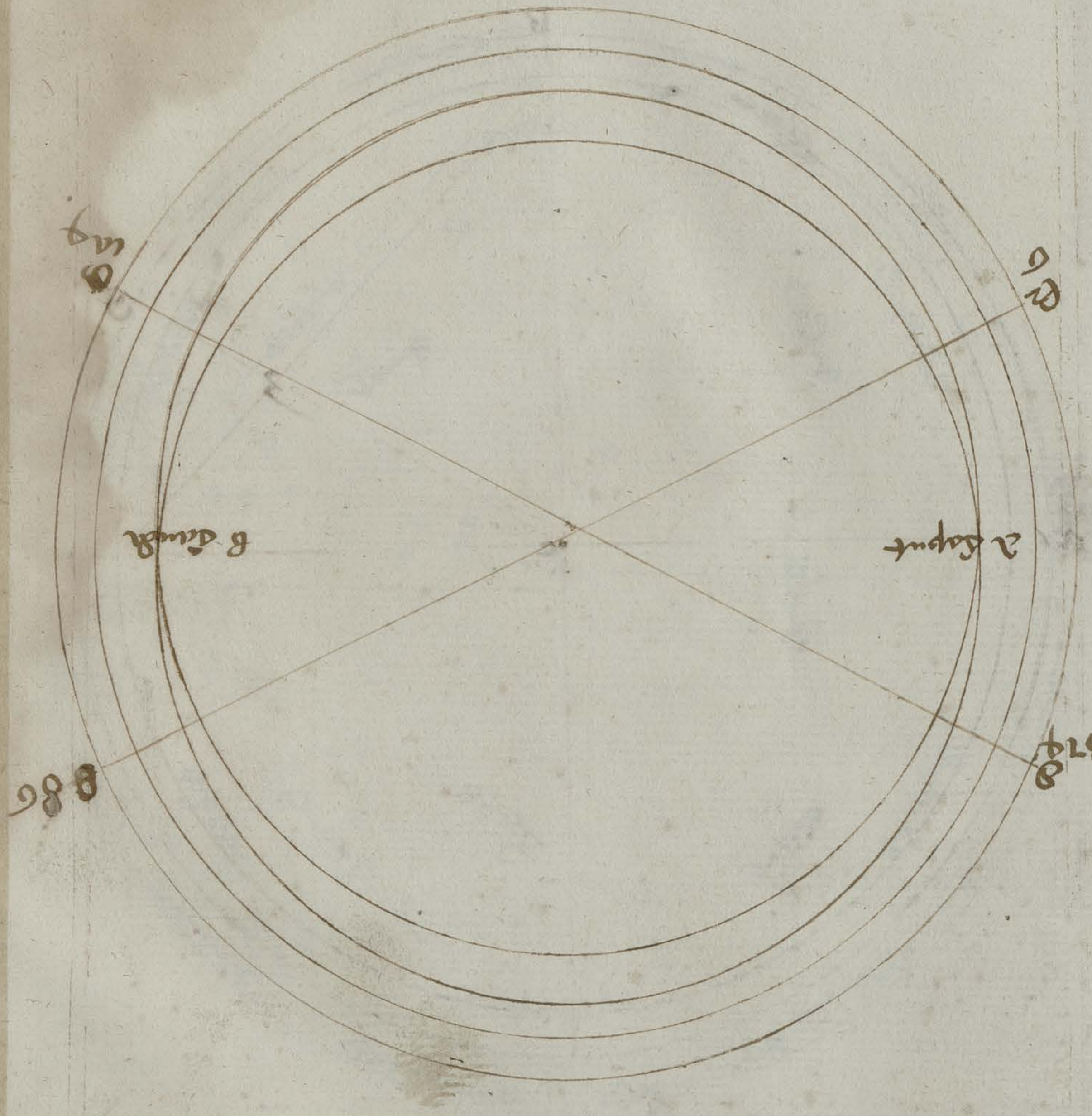
Quintus

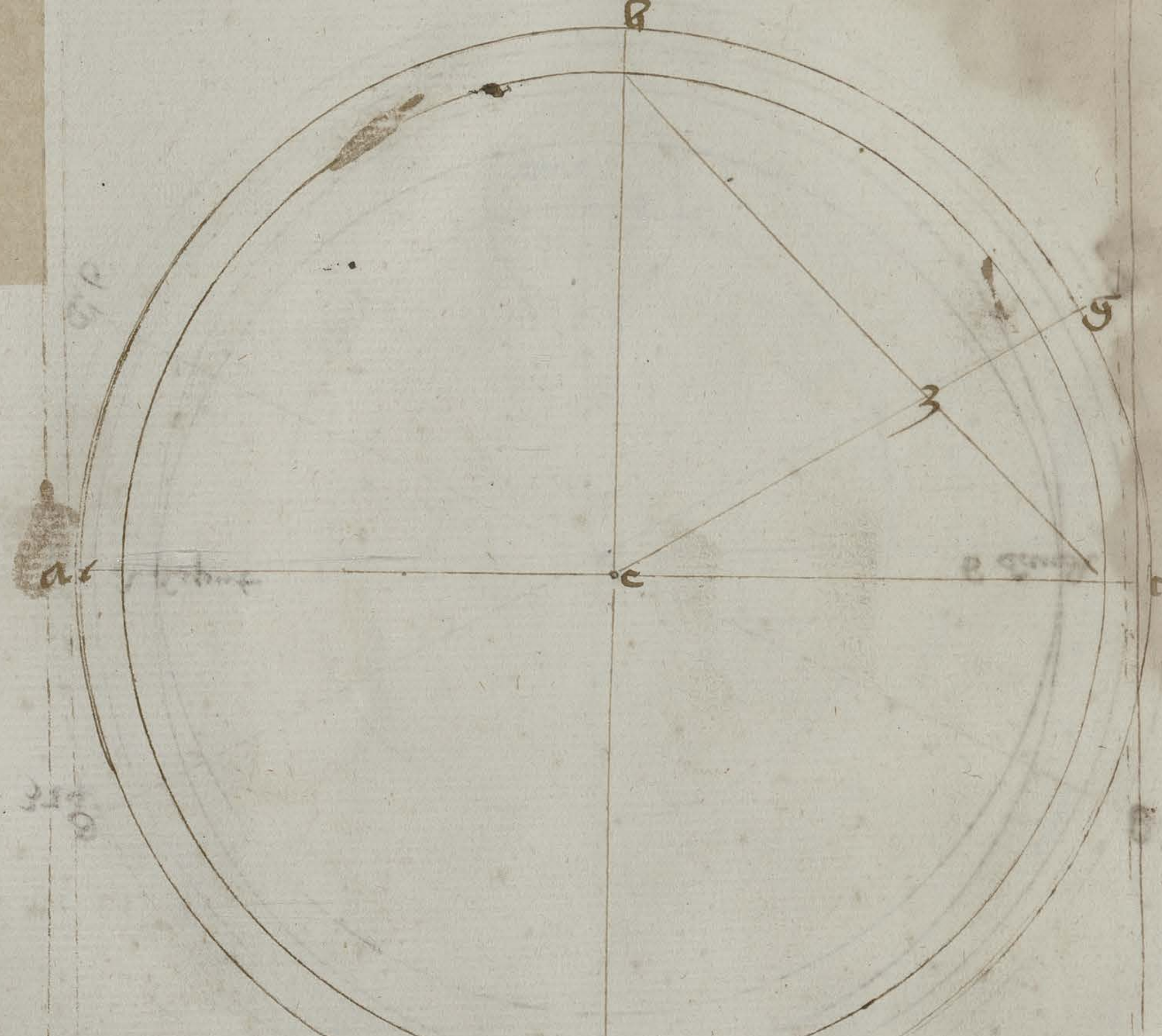


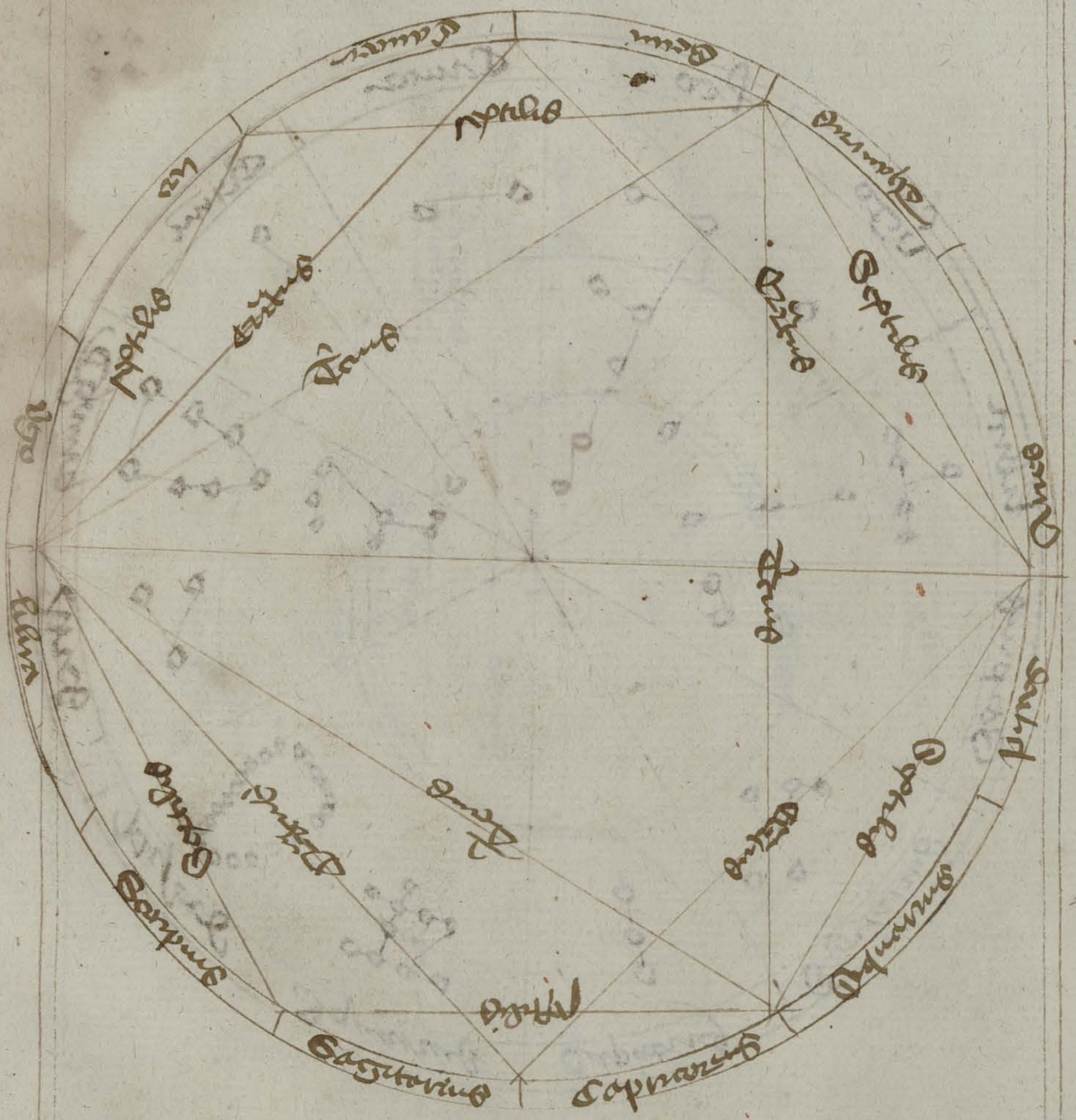
Sex[ta] ...

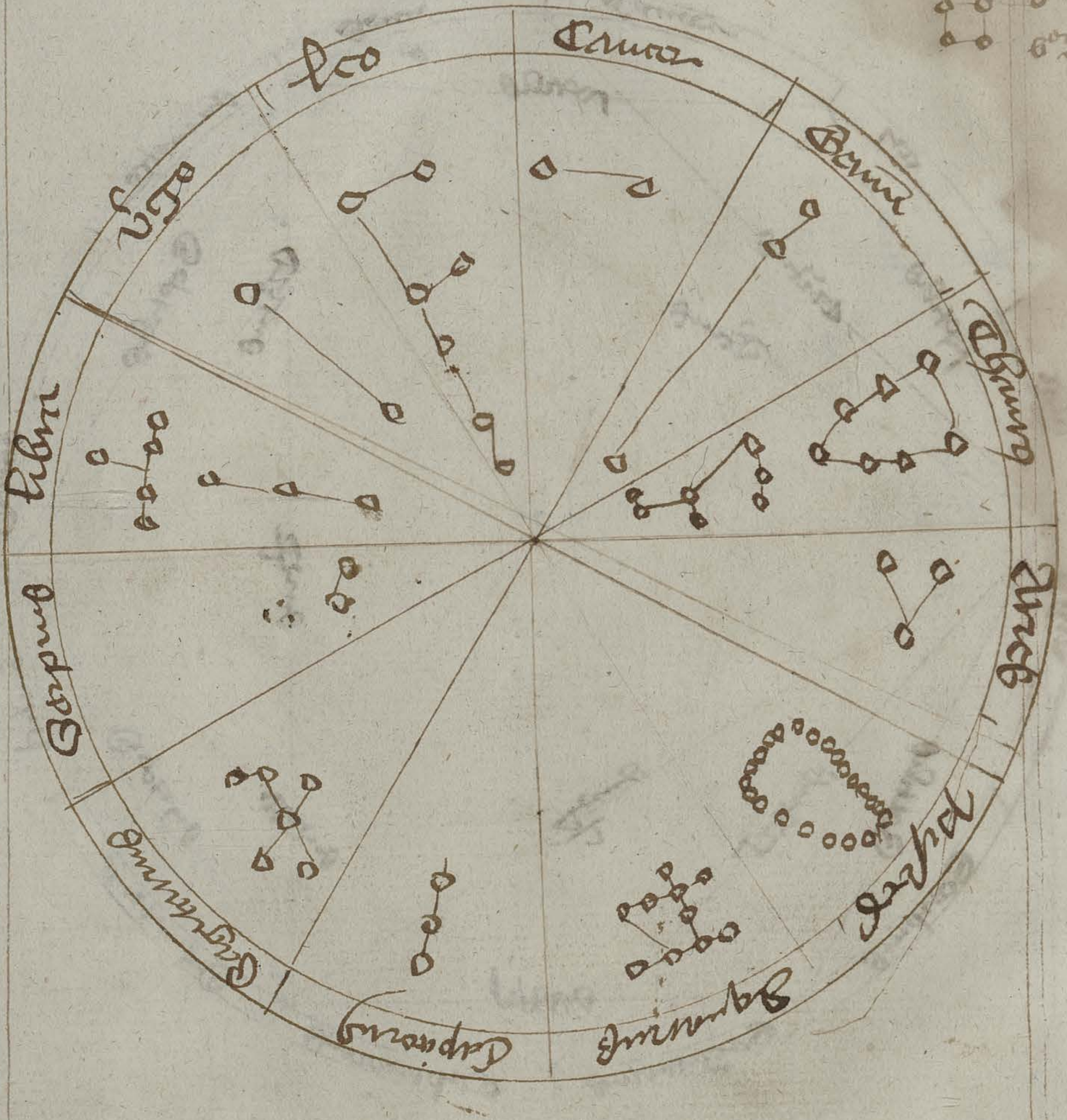
Medius quarti


A
B
epiciclo
D
Z
F
deferente
C

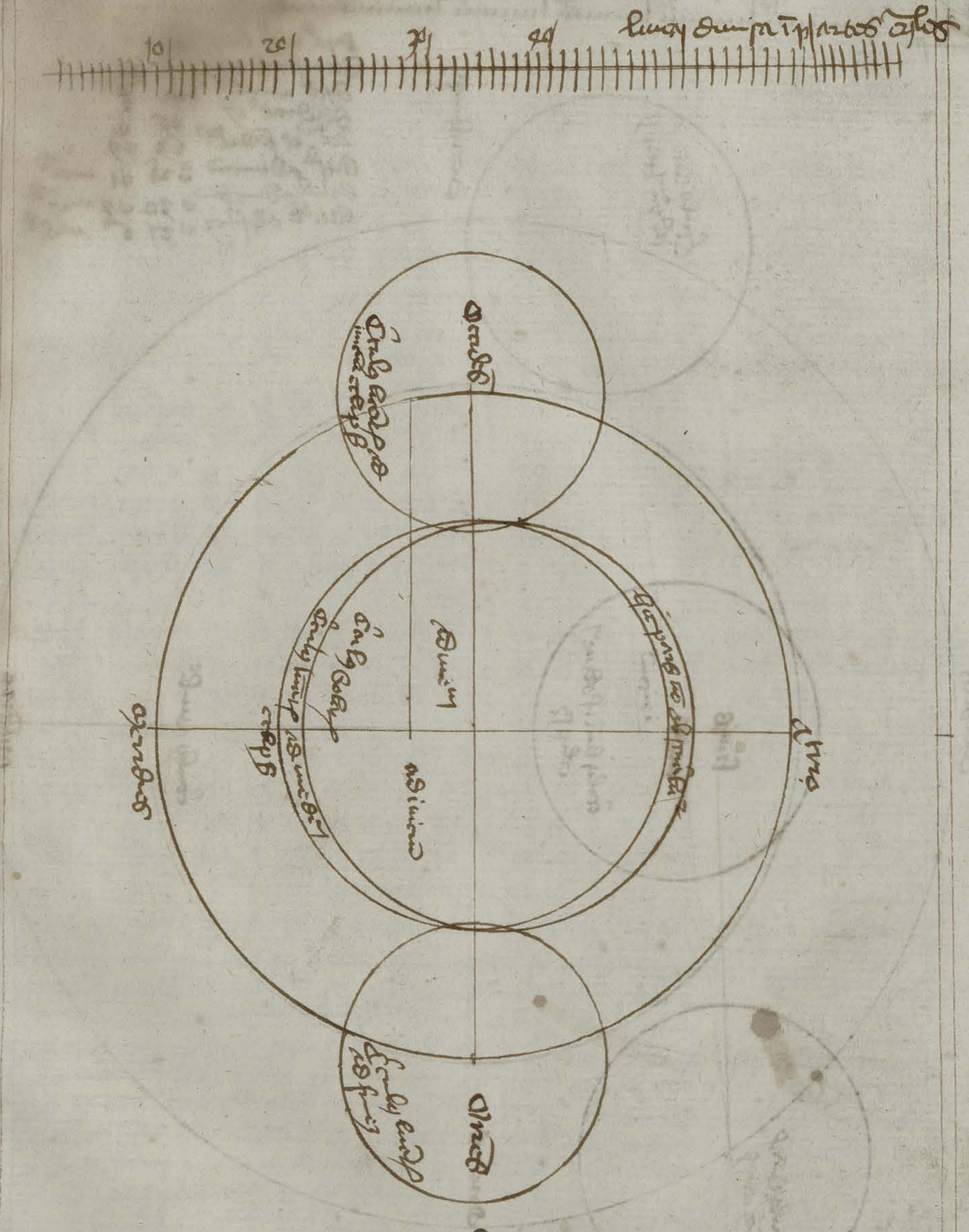

a Caput
b Cauda
374
86


B
3
5
a
c


Sagittarius
Capricornus


Cancer
Leo
Virgo
Libra
Scorpius
Aries
Pisces





Luna / Anni   1 ... 10 ... 20 ... 30 ... 40 ... 50 ... 60 ... 70 ... 80   Minuta proportionalia

Dyat. umbr. lune	37	30	
Semidyat. eius	18	47	
Dyat. umbre	92	8	
Semidiat. eius	46	4	
Aggregatum semidiametrorum	63	49	
Latitudo in principio	0 28	41	min.
Latitudo in medio	0 30	49	min.
Latitudo in fine	0 37	6	min.



Eclipsis solis

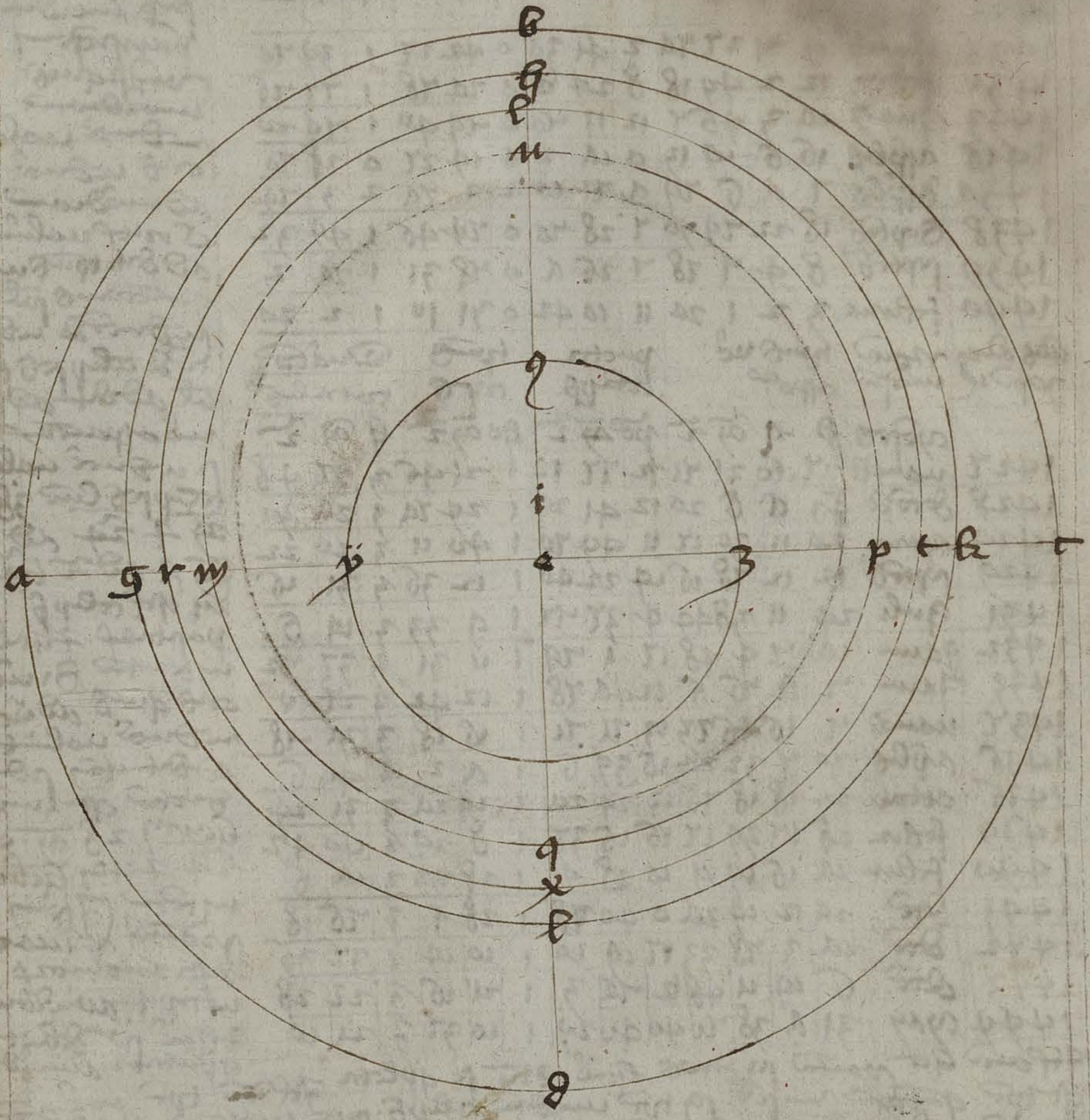
Anni christi	Nomen mensis	Coniunctio vera solis et lune				Puncta eclipsis			Tempus casus			Duratio totalis		
[illegible]	mensis	d	ho	mi	2a	pc	mi	2a	h	mi	2a	ho	mi	2a
1427	marcii	9	21	27	50	2	41	30	0	42	27	1	34	50
1431	februarii	12	2	49	18	8	24	0	0	50	58	1	55	56
1433	junii	10	3	46	7	12	13	56	0	59	40	1	59	20
1436	aprilis	16	6	19	13	0	10	2	0	14	27	0	28	50
143[illegible]	aprilis	7	0	6	54	0	51	10	1	7	50	2	3	54
1438	septembris	18	22	59	30	7	28	56	0	54	46	1	49	32
1439	[illegible]	8	4	7	58	7	26	0	0	58	31	1	50	2
1440	februarii	3	2	1	20	11	10	42	0	31	10	1	2	20

Eclipsis lune

Anni christi	Nomen mensis	Tempus veri oppositionis				Puncta eclipsis			Tempus casus			Duratio totalis		
	mensis	d	h	mi	2a	pc	mi	2a	ho	mi	2a	h	mi	2a
1427	marcii	27	10	31	41	12	57	12	1	21	46	3	22	48
1428	octobris	[illegible]	6	6	20	12	41	29	1	24	50	3	20	30
1429	marcii	20	11	30	17	11	49	50	1	40	11	3	20	22
1429	[illegible]	12	12	58	16	14	22	40	1	12	36	3	31	6
1431	julii	24	11	38	44	4	37	57	1	9	33	3	19	6
1432	januarii	10	9	4	48	17	1	59	1	11	31	3	37	52
1433	januarii	7	13	56	6	12	40	58	1	12	42	3	27	0
1434	novembris	7	16	46	23	13	11	11	1	16	18	3	31	58
1436	aprilis	30	7	32	20	16	39	6	1	0	2	3	40	6
1436	octobris	24	18	18	56	13	24	20	1	19	20	3	31	24
1439	februarii	28	17	39	17	16	16	37	1	8	29	3	40	42
1440	februarii	10	16	19	4	10	28	4	1	38	33	3	10	6
1443	[illegible]	20	12	19	20	0	40	58	1	28	9	3	56	18
1442	[illegible]	10	3	58	33	17	19	10	1	10	14	3	37	36
1443	[illegible]	6	19	11	48	12	50	3	1	21	16	3	22	28
1444	maii	31	0	38	51	40	41	29	1	10	37	3	21	10

Sed eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis luna 38 [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 [illegible] 24 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] astronomorum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Item [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] medium eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] ad medium [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] puncta eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] puncta eclipsis [illegible] [illegible] [illegible] eclipsis [illegible] [illegible] puncta [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]


b
g
l
u
q
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a
g r m
y
z
p t k
c
q
x
f
d

Ad laudem et honorem dei omnipotentis

[illegible]

[illegible]

quitus ad [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
tamen calor est in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
quia [illegible] calor in [illegible] [illegible]
[illegible]

[illegible]

aliud

[illegible]

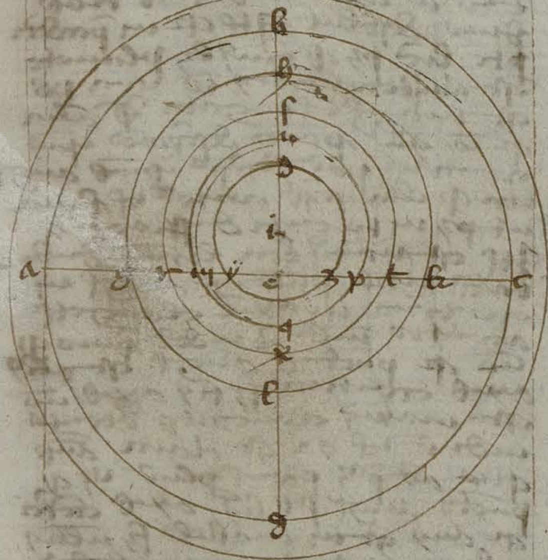
[illegible] Et per umbras [illegible] vel [illegible] in [illegible] alti[illegible] [illegible] [illegible] Et quo [illegible] [illegible] [illegible] Et [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et ad aliud [illegible] argumentum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Sequitur littera [illegible] vel [illegible] Circulus ecc[illegible]

Circulus eccentricus vel egresse cuspidis vel egredientis centri dicitur qui non habet centrum suum cum centro mundi. Liber iste cuius [illegible] est figura planetarum in ordine ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] autor determinat de figurationibus [illegible] [illegible] [illegible] planetarum [illegible] in ordine ad [illegible] [illegible] Et [illegible] differentia [illegible] [illegible] de figurationibus quae [illegible] in ordine ad [illegible] Et [illegible] [illegible] [illegible] usque in finem libri [illegible] planetarum Et [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] figurationibus [illegible] planetarum [illegible] [illegible] Et [illegible] tractatus [illegible] [illegible] figurationibus [illegible] [illegible] [illegible] Et [illegible] tractatus [illegible] Et [illegible] [illegible] [illegible] planetarum Et [illegible] tractatus [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] autor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] Et [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centri [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] egresse cuspidis [illegible] egredientis centri [illegible] qui non habet centrum [illegible] [illegible] centro mundi [illegible] [illegible] autor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible] in plaga [illegible] contrarios [illegible] planete [illegible] orbes [illegible] contrarios [illegible] luna [illegible] loco [illegible]

[illegible] ymaginacio [illegible] luna [illegible] eclipsis [illegible] astrologia [illegible] planeta [illegible]



[illegible] ... fedit. [illegible] ... plurimum ... [illegible]

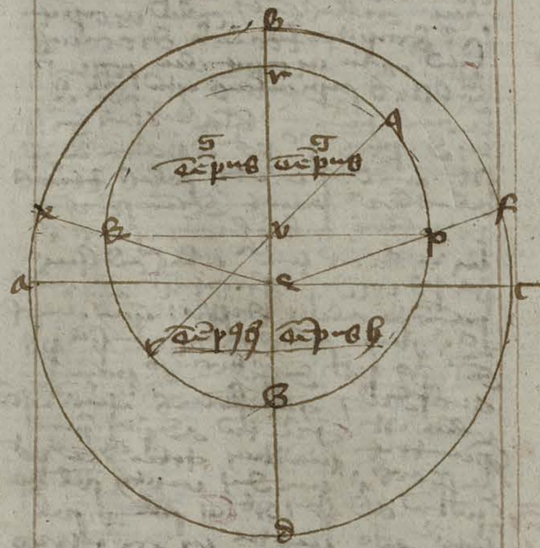
... in tabulis planetarum ... [illegible]

Pars autem eccentrici que maxime remota a centro dicitur aux vel longitudo longior. Sed pars que maxime accedit ad ipsum dicitur oppositum augis vel longitudo propior. Duo vero loca circuli que sunt inter augem et oppositum augis dicuntur longitudines medie.

Que autem puncta in differentia ... [illegible] ... Pars eccentrici que maxime elongatur a centro dicitur aux vel longitudo longior. Sed oppositum ... [illegible] ... Sed duo puncta intermedia dicuntur longitudines medie. [illegible] ... in tabulis ... [illegible] ... augis et longitudines medie ... in tabulis ... planetarum ... [illegible] ... centri ... [illegible] ... longitudo ... [illegible] ... aux ... [illegible] ... eccentrici ... [illegible]

[illegible]

zodiaci [illegible] punctum augis solis cadit [illegible] zodiaco [illegible] punctum augis est in [illegible]



[illegible]

Movetur autem sol proprio motu ab occidente in orientem in proprio circulo excentrico 59 minutis et 8 2is equaliter semper. Quintus vero rotatur ab oriente in occidentem equaliter quolibet die naturali. Nunc ergo ut sol moveatur in equaliter motibus propriis [illegible]

[illegible]

[illegible] polus
[illegible] ad [illegible] equalis [illegible]
[illegible] differentia
[illegible] polis in puncto
[illegible] in puncto [illegible]
[illegible] a puncto [illegible] ad
puncto [illegible]
polis [illegible] ad puncto
[illegible]
[illegible] a puncto [illegible] ad puncto
[illegible]
[illegible] in quo [illegible]
[illegible] ad [illegible]
[illegible] ad puncto [illegible]
[illegible] quo [illegible]
[illegible] in quo [illegible]

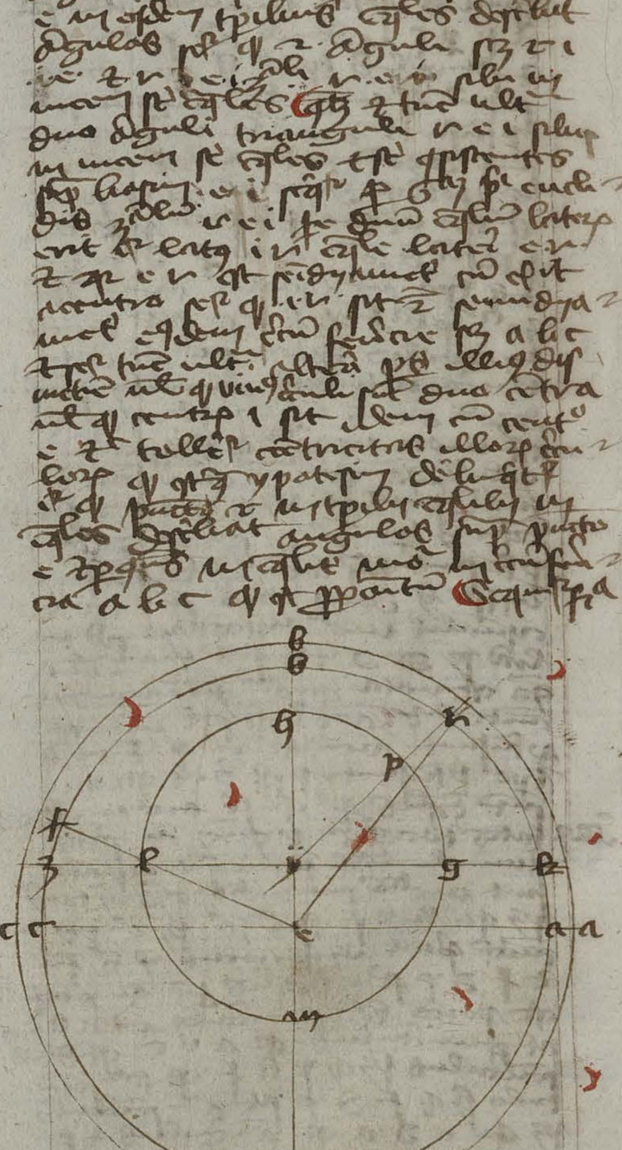
[illegible]

[illegible] circulo in [illegible]
[illegible] sunt [illegible]
[illegible] equalis [illegible]
[illegible]

[illegible]

ad punctum [illegible] meridi[illegible] polo [illegible] ipsius ad [illegible] hec sol pertransit [illegible] [illegible] arcus [illegible] pertransit in equalibus temporibus [illegible] arcus [illegible] quod fuit probandum. Consequenter [illegible] arcubus [illegible] sunt [illegible]

[illegible]



[illegible]

[illegible gloss, 16 lines]

Medius motus solis dicitur arcus zodiaci cadens inter lineam exeuntem a centro terre usque ad locum arietis et lineam exeuntem ab eodem centro terre usque ad firmamentum lineam dico equedistantem linee exeunti a centro ecentrici per centrum corporis solis ad zodiacum

In ista parte auctor declarat [illegible] quibus [illegible] in tabulis [illegible] solis [illegible] primo quid sit medius motus solis [illegible] quid sit [illegible] motus solis [illegible]

Quia [illegible]

[illegible gloss, 15 lines]

[illegible gloss, right column]

2um dubium

Quare dicitur medius motus

Quare medius motus sumitur [illegible] a centro terre

prima propositio

2a propositio

3a propositio

[illegible]

Verus motus solis dicitur arcus zodiaci cadens inter caput arietis et lineam exeuntem a centro terre per centrum solis.

[illegible]

Apparens motus

[illegible]

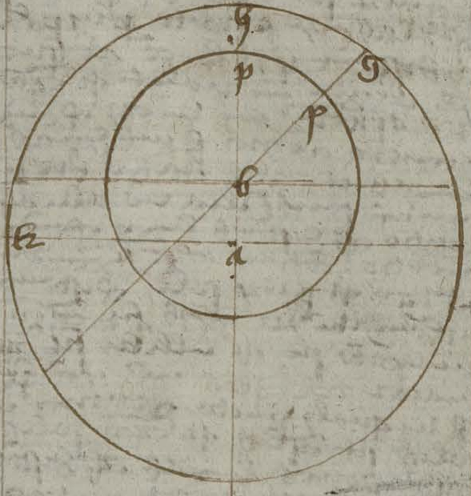
[illegible]

Equatio solis dicitur arcus zodiaci interceptus inter medium motum solis et verum motum solis, que equatio nulla est sole existente in auge vel in opposito augis. Et ab eis crescit in longitudinibus mediis et est maxima equatio.

[illegible]

[illegible]

[illegible]



[illegible]

2a

3a

4m

5m

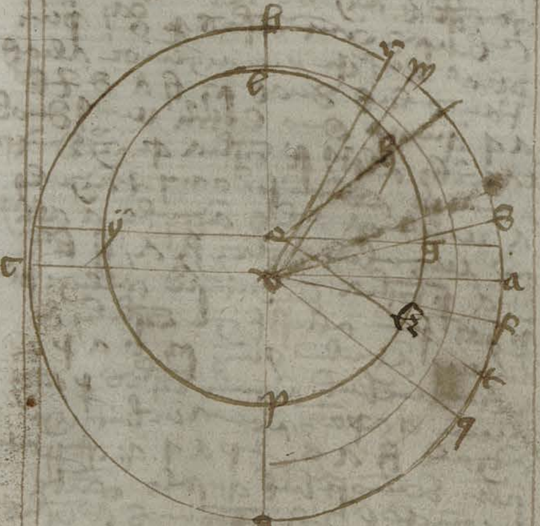
De sole quod sit in longitudinibus medys sit equatio maxima

dicitur in ea a qua sol est ... nulla autem ... in ... fuit aliquid ... in ... [illegible]

[illegible]

[illegible]

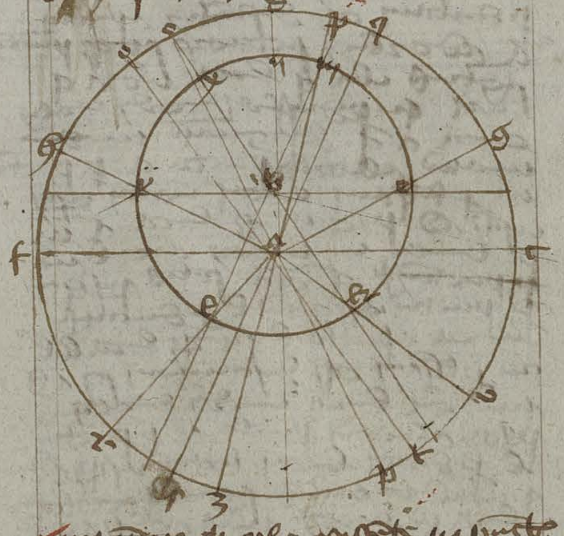
[illegible]



[illegible]

[illegible]

et arcus equalis [illegible] pars [illegible]
[illegible] quia polus equinoctialis in puncto
[illegible] apparens equinoctialis [illegible]
in triangulis [illegible] in
puncto apparente [illegible]
[illegible] duos angulos [illegible] g a o
[illegible] duo latera unius
duobus lateribus alterius [illegible] equalia
[illegible] centro ad circumferentiam
[illegible] centro ad [illegible]
[illegible] angulus a unius est [illegible] angulo
[illegible] alterius. Est ergo angulus [illegible]
[illegible] angulo [illegible] unius
[illegible] alterius [illegible]
[illegible]
[illegible] arcus [illegible]
[illegible] arcus [illegible] quia [illegible]
[illegible] in puncto [illegible] in apparente
[illegible]
[illegible]
[illegible] angulo [illegible]
[illegible] in puncto [illegible] angulus [illegible]
in puncto [illegible] angulo [illegible]
[illegible]
[illegible]
[illegible]
[illegible] angulus [illegible] angulo
[illegible]
[illegible]



Et arcus [illegible] quia polus [illegible] in puncto

[illegible] sunt equales [illegible]
in parte [illegible] equinoctialis sunt
[illegible] triangula [illegible]
[illegible] lateribus equalia [illegible]
[illegible] a centro [illegible]
[illegible] parte. Et [illegible]
[illegible] quia polus [illegible] angulos
[illegible] quam ipse [illegible]
[illegible] apparentem [illegible] angulus
[illegible] a o [illegible] angulo [illegible]
[illegible] angulus [illegible]
[illegible] quanto polus
[illegible] accedit ad augem tanto
[illegible] minuuntur tanto
plus [illegible] accrescit
ad augem tanto plus minuuntur.
Et [illegible] quanto plus accrescit ad
augem tanto magis minuuntur
[illegible] tanto plus
[illegible] angulus [illegible]
[illegible]
[illegible] quia polus [illegible]
in [illegible] distantia [illegible]
[illegible] apparente [illegible]
[illegible] alia [illegible]
[illegible] in puncto [illegible]
in [illegible] distant a [illegible] puncto [illegible]
[illegible] triangulorum [illegible]
[illegible] equalia
[illegible] angulus a unius
[illegible] angulo [illegible] alterius
[illegible]
[illegible]
Et [illegible] triangulus duo [illegible] a [illegible]
[illegible] duo latera unius duobus
lateribus alterius [illegible]
[illegible] angulus
a unius est equalis angulo a alterius
[illegible]
[illegible]
[illegible]
[illegible] angulus [illegible]
[illegible]
[illegible] a o [illegible] p a q [illegible]
[illegible] polus [illegible]
in puncto [illegible] equinoctialis [illegible]
[illegible] triangulorum [illegible]
[illegible] triangulus [illegible] unius
equalis angulo a alterius [illegible]

Argumentum solis dicitur arcus zodiaci cadens inter augem et lineam transeuntem medium motum solis

Centrum solis in 2a significatione dicitur arcus zodiaci cadens inter caput arietis et lineam que transit per centrum augis ecentrici

Cum vero autem medietate
rel. maior est medius
motus quam verus, equa-
tio equacio est subtrahenda.

Cum alia autem est minor quia
hec est addenda etc.

[illegible]

[illegible]

[illegible]

[illegible]

quarta

[illegible] ... sequitur [illegible] epiciclo [illegible] capitulo de luna [illegible]

Epiciclus sive orbis revolutionis lune est circulus dyametri brevis describit ille parvus circulus cuius centrum movetur super circumferentiam centri deferentis in circuitu.

[illegible]

[illegible]

Excentricus autem solis in

13 ab oriente in occidentem ... [illegible]

mobilis est nisi quantum ad motum quem habet proprium. Et contra et luna movetur quolibet die naturali ab oriente in occidentem 11 g[radibus] diebus fere. Et contra contra deficit quedam proportio circuli. Et contra iudicio. Epiciclus vero lune movetur 13 gradibus et 10 minutis et 34 2is ab occidente in orientem. ~~Et contra~~ epiciclus lune movetur 13 gradibus 10 minutis 34 2is in die ab occidente in orientem. Et aux ecentrici movetur lune 11 gradibus fere in die ab oriente in occidentem. Et centrum plus lune fere unus gradum in die contra firmamentum.

[illegible]

fere et plus 9 minutis [illegible]

fere et plus 10 minutis 34 2is [illegible]

fere et plus fere minutis et 18 2is

fere et plus 79 minutis et 8 2is [illegible]

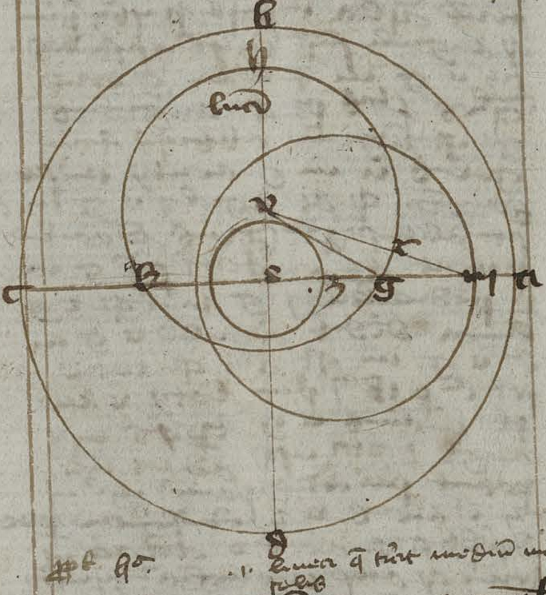
[illegible]

13 10 34 ... epicicli

11 12 18 ... aux ecentrici

0 79 8 ... [illegible]

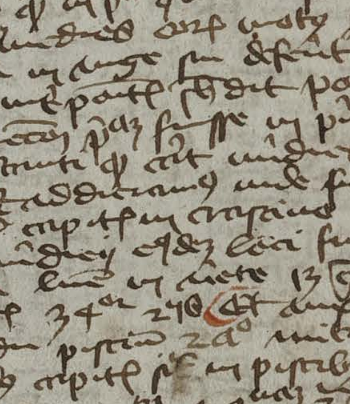
primum ita quod ille revolvitur pro
videlicet a linea centri in circumferentia
equantis fuerit motus [illegible]
centrum solis preter quod quando [illegible] pro-
tus centrum a linea procedente
a centro terre per punctum [illegible]
centrum [illegible] ad 2a [illegible] ipse
erit in 30 in luna [illegible] gradus
[illegible] in sole et similiter quiescentia [illegible]
[illegible] centrum solis usque ad [illegible]
[illegible] solis reperit distanciam
[illegible] centrum [illegible] gradu fere et
[illegible] distantia illa
[illegible] figura [illegible]



[illegible] i. linea que transit medium motum solis

Unde patet quod si centrum solis
et aux centri lune et
centrum epicicli fuerint in
aliqua hora in aliquo
loco celi sole quieto, in se-
cunda die distabit sol ab illo
loco in quo fuit quietus
uno gradu scilicet versus orientem
Et aux centri lune dista-
bit per 11 gradus versus occi-
dentem. Et centrum epicicli

per 13 luna distabit per 13 gradus
versus orientem ita quod sol
erit in medio [illegible] inter
augem et centrum epicicli. Cum
autem luna sol erit in medio
inter augem et centrum epici-
cli [illegible]
[illegible]
[illegible] duplicatur distancia [illegible]
[illegible]
[illegible]
[illegible] solis et aux et [illegible]
[illegible] luna et centrum epicicli luna
fuerit in aliqua [illegible] in aliquo loco
celi quod in [illegible] die sol ab illo
loco distabit versus orientem
[illegible] centrum epicicli per 13 aux
centri lune per 11 et sic sol erit
in medio inter augem [illegible]
et centrum epicicli [illegible]
[illegible]
[illegible] quia [illegible]
[illegible]
[illegible]
epicicli in auge [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] epicicli luna in [illegible] 13 gradus
[illegible] 34 [illegible] 240 [illegible] aux [illegible]
[illegible] 24 [illegible]
[illegible] 29
[illegible] 4 [illegible] 79
[illegible] 8 [illegible] distancia [illegible]
[illegible] ab auge 270 [illegible] 22 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]



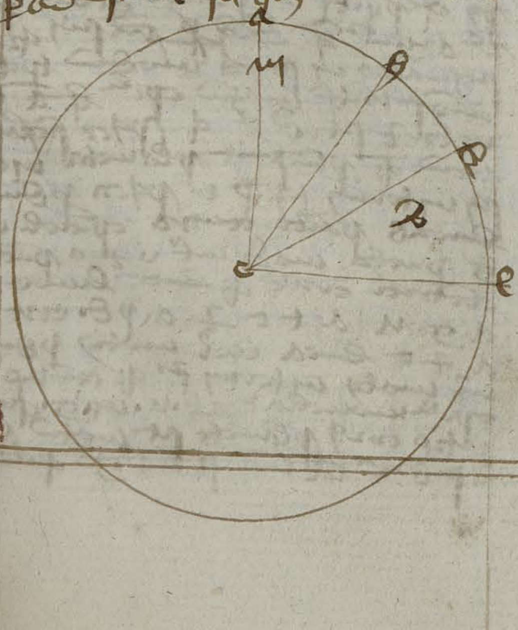
[illegible]

[illegible]

[illegible]

[illegible]

[illegible] in [illegible] qui [illegible] in quo [illegible] [illegible] sed undique [illegible] [illegible] [illegible] epicicli [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centri epicicli [illegible] [illegible] [illegible] in auge [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] centri epicicli [illegible] in auge [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Item 3a stelle [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] raptus quo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] stelle [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] qua [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in stellis [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] stelle [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]



Item 4to [illegible] stelle [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] qui [illegible] stellarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] stelle [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] stella [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Item [illegible] [illegible] [illegible] stelle [illegible] Item [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] epicicli [illegible] [illegible] [illegible] [illegible] [illegible] epicicli [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] epicicli [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] auge epicicli [illegible] in auge [illegible] epicicli [illegible]

tabule [illegible] motus planetarum
in epiciclis suis [illegible]
[illegible] in celo [illegible]
[illegible] motus [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] tabularum [illegible]
[illegible]
in epiciclo [illegible]
[illegible]
[illegible] planete [illegible]
[illegible]
[illegible]

[illegible]

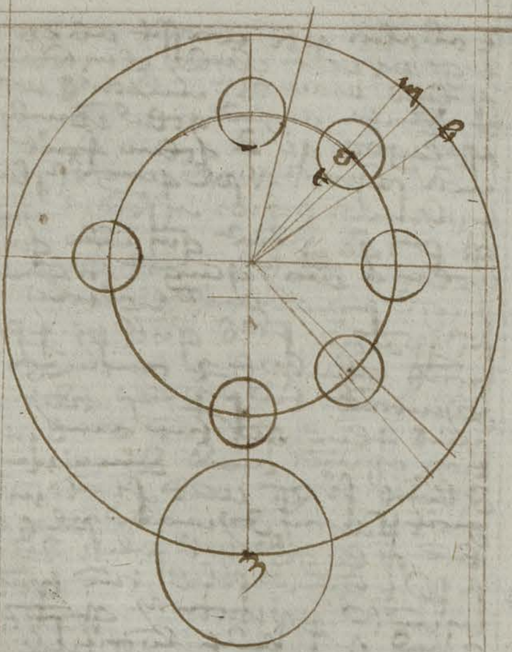
et centrum planete [illegible] epiciclo [illegible]
[illegible] motus [illegible] puncto [illegible]
[illegible]

[illegible] puncto [illegible]

[illegible] motus [illegible] planete [illegible] puncto [illegible]

[illegible]

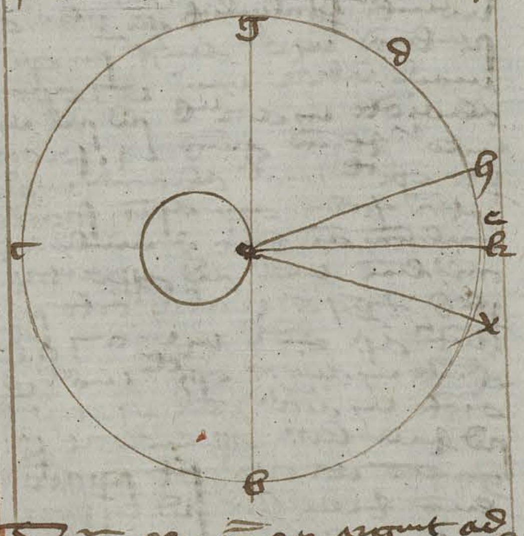
q est [illegible] epicicli [illegible] motus est
[illegible] puncto [illegible] puncto
[illegible] [illegible] longitudo
media [illegible] opposito [illegible] puncto
[illegible] [illegible] in deferente [illegible]
[illegible] puncto [illegible] [illegible] opposito
[illegible] luna [illegible] [illegible]
[illegible] planeta [illegible] planete [illegible]
[illegible] puncto [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] luna
[illegible] motus [illegible] [illegible]
planeta [illegible] [illegible]
[illegible] puncto [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] epicicli [illegible]
[illegible] [illegible] [illegible]
[illegible] epicicli [illegible] corpus planete
[illegible] [illegible] [illegible] planete
[illegible] epicicli [illegible]
in puncto [illegible] motus [illegible]
[illegible] longe [illegible] media [illegible]
[illegible] puncto [illegible] augis [illegible]
centri epicicli [illegible] in puncto [illegible]
stelle [illegible] in puncto [illegible]
[illegible] [illegible] [illegible]
[illegible] epicicli [illegible]
[illegible] [illegible] [illegible]
stelle [illegible] [illegible]
motus [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] puncto [illegible]
[illegible] [illegible] [illegible]
[illegible] epicicli [illegible]
[illegible] [illegible] [illegible]
[illegible] corpus planete
est motus [illegible]
[illegible] epicicli [illegible]
est [illegible] epicicli [illegible]
[illegible] motus [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
motus [illegible] motus planete
[illegible] [illegible] motus
[illegible] [illegible] [illegible]
epicicli [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] sequitur figura [illegible]



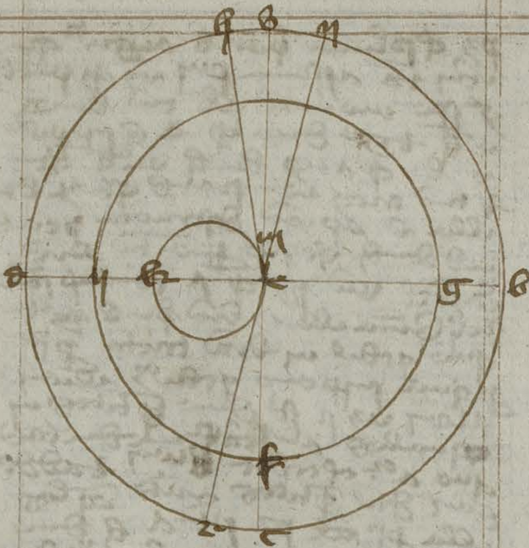
[illegible] [illegible] [illegible]
motus tardius [illegible] tardius
luna [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] tardior [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
media [illegible] [illegible]
[illegible] [illegible] orbis [illegible]
[illegible] [illegible] [illegible]
[illegible] orbis [illegible]
est [illegible] tardius motus
[illegible] orbis [illegible]
[illegible] luna [illegible]
[illegible] tardius motus
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] orbis
[illegible] [illegible] motus
[illegible] qualis orbis
[illegible] [illegible] [illegible]
[illegible] luna [illegible]
[illegible] tardius [illegible]
[illegible] [illegible] apparet
[illegible] [illegible]
[illegible] luna [illegible]
[illegible] [illegible] [illegible]

[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]

Unde secundum duplicem distanciam solis et centri epicicli lune, scilicet distancia inter augem ecentrici lune et centrum epicicli lune, et centrum solis. Et hec distancia dicitur centrum medium lune vel duplex interseccio vel longitudo duplex

[illegible]

[illegible]

Hec autem manifesta est, quia illa tota coniuncta aut fiat per eundem locum aut sol [illegible] est in medio duorum aut in opposito, patet quod centrum epicicli lune bis pertransit in mense circulum lune et est in [illegible] ad solem in auge sui deferentis et in opposito parte et in quadraturis sole medius sol est in longitudine propiori [illegible]

[illegible]

Luna ergo erit in coniunctione sui epicicli et [illegible] est in superiori parte sui epicicli [illegible] in [illegible] quando luna est [illegible] et in [illegible]

in feriori parte equantis eum
et tunc erit velox cursu

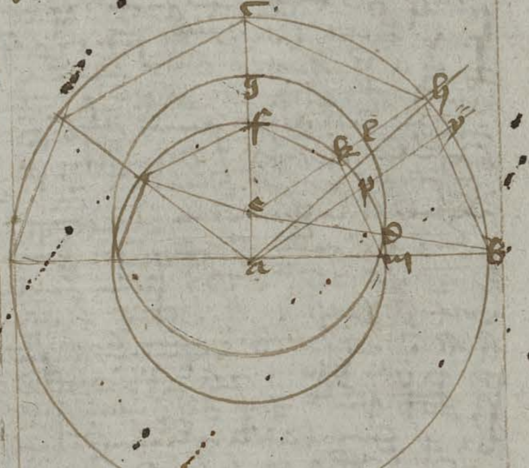
Quando vero alii planete

[illegible]

Sicut ad sol motu equali
super centrum eccentrici sui sic
et centrum epicicli lune equali
mouetur super centrum mundi ut
patet in figura de luna etc.

[illegible]

[illegible]



[illegible]

[illegible]

Medius motus lune est arcus zodiaci incipiens ab ariete et computatus secundum successionem signorum per arietem thaurum et cetera usque ad lineam exeuntem a centro terre per centrum epicicli lune ad zodiacum. Verus motus lune [est arcus zodiaci interceptus inter] principium arietis [illegible] per lineam exeuntem a centro mundi per centrum corporis lune [illegible]

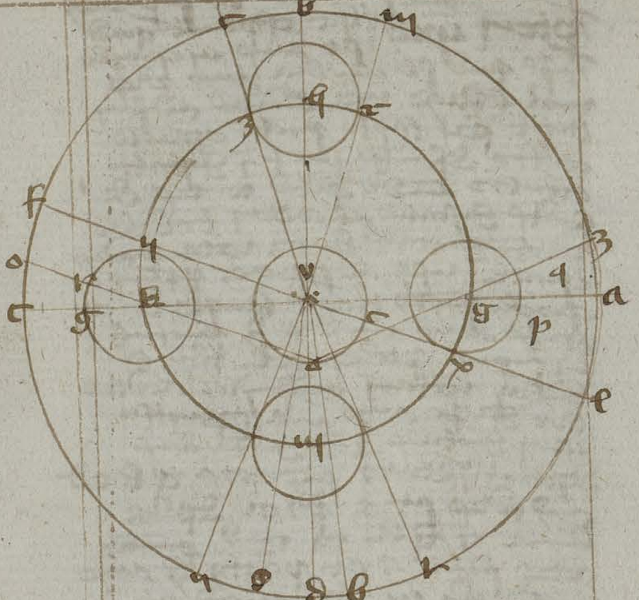
[illegible]

[illegible]

Aux media in epiciclo dicitur puncto quem tangit quedam linea exiens a quodam puncto alio centro ecentrici qui tantum distat a centro terre quantum distat centrum ecentrici aliquando est [illegible] partis epicicli usque ad oppositum partis epicicli.

Aux vero dicitur puncto epicicli quem tangit linea exiens a centro mundi per

[illegible]



[illegible]

[illegible]

Equacio centri dicitur arcus parvus epicicli inter augem mediam et augem veram

[illegible]

[illegible]

Argumentum medium dicitur arcus epicicli interiacens augem mediam et centrum corporis lune computatus in motu lune in epiciclo. Argumentum verum dicitur arcus epicicli interiacens augem veram et centrum corporis lune.

[illegible]

[illegible]

Centro vero equantis [illegible] epicicli contrarii ut [illegible] ut appa[ret] medium. Et ipsa centro equantis in oppositio augis que est in quadraturis mediis lune [illegible] ulla est [illegible] centri. Et aux vera et media [illegible]

[illegible]

centrum epicicli fuerit in auge vel in opposito augis sicut dictum est equatio centri est nulla [illegible]

[illegible]

Equatio argumenti lune dicitur arcus zodiaci interceptus inter [illegible] motu lune et [illegible] que equatio nulla est centro epicicli existente in auge ecentrici vel opposito augis et non est luna existente in lon-

gitudine [illegible] propinquiori vel in longitudine propinquiori epicicli. Maior vero est centro epicicli existente in longitudinibus propinquioribus ecentrici et luna existente in longitudinibus mediis epicicli.

[illegible]

[illegible]

Et cum luna fuerit in medietate epici-
cli que respicit orientem adie-
ctio maior est medio motui
quod verum (scilicet) equatio argumenti ad-
gitur [illegible] est a medio
motu (scilicet) ad habendum verum motum.
In reliqua vero medietate subtrahi-
tur (scilicet) equatio argumenti ad-
denda est [illegible]

[illegible]

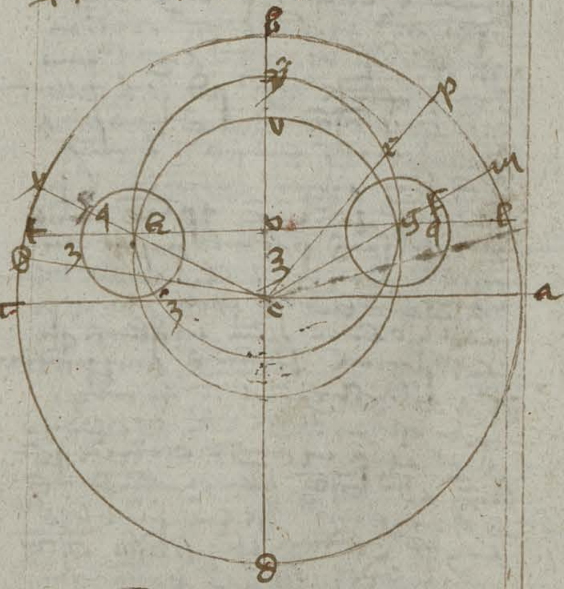
Et sciendum quod maiores
sunt equationes argumenti centro
epicicli existente in opposito
augis quam existente in auge
[illegible] que est [illegible]

equidistantes a centro
circuli contingentis in angulo
et centro circuli contingentis
in 2o angulo ... dum
... dyametri ... lineis

[illegible]

[illegible]

[illegible] ... in tabulis ... centrum epicicli recedente ab auge ... [illegible]



M[illegible] argumenta que ponuntur in tabulis sunt [illegible] [illegible] ac si semper esset centrum epicicli in auge ecentri

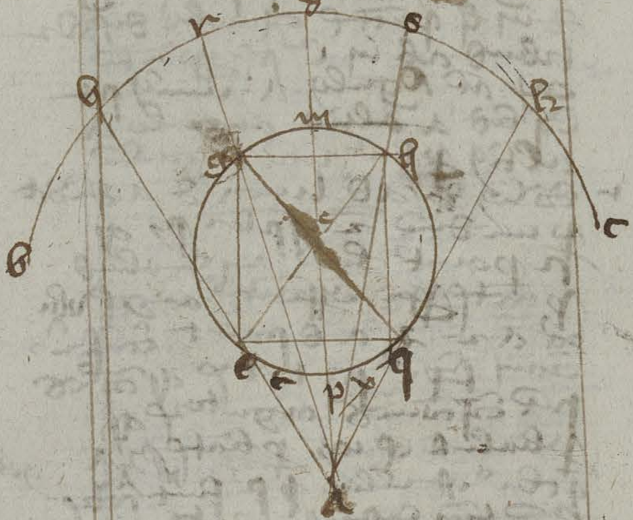
Centro vero equantis epicicli in aliis locis circuli egressi cuspidis argumenti 2m quod centrum epicicli accedit ad centrum terre [illegible]

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

et istud patet in figura [illegible]

[illegible]

[illegible]

[illegible]

[S]equitur de capite et cauda draconis

[C]irca centrum hunc declinat luna a via solis in duabus partibus scilicet in aquilone et in meridie et intersecat circulum solis in duobus locis oppositis et ille intersectiones dicuntur caput et cauda draconis. Et dicitur caput draconis intersectio in qua luna incipit declinare ab ea [illegible]

[illegible]

[illegible]

[illegible]

Et ille instrumentis movetur attendere aliquantum [illegible] [illegible] fo. 2 [illegible]

[illegible]

Et ille motus est dissimilis motui planetarum qui est ab occidente in orientem et ut habent sententie in motibus. Caput draconis [illegible] in medio motu est semper [illegible] in uno puncto [illegible] ad semper. Et in principio medio cursu capitis [illegible] [illegible] caput draconis [illegible] [illegible] in figura [illegible] motus capitis draconis ad motus planetarum [illegible] ille motus [illegible] caput draconis est dissimilis motibus planetarum et ut habent sententie in motibus [illegible]

[illegible]



[illegible]



b
h
l
c
a
f
n
g
e
p
k
d

[illegible] ... aliud possit dici ... [illegible] ... in illo circulo ... [illegible]

Sequitur de circulis superiorum planetarum vel [illegible]. Quod quilibet superiorum trium planetarum habet duos circulos eccentricos dispositos in ordine [illegible] planeta [illegible] mobilis in quo [illegible] [illegible] radius [illegible] [illegible]. Et unus dicitur circulus deferens [illegible] centrum epicicli [illegible]. Et alius dicitur circulus equans motum [illegible] centri equalis [illegible] epicicli [illegible] equales angulos describit et hii duo circuli in una parte [illegible]. Et iste circulus cuius centrum propinquius centro terre est deferens et reliquus est equans [illegible]

[illegible]

[illegible]

epicicli existente in auge vel
in opposito augis et per consequens centro
epicicli existente in aliis locis
centrum declinat ad quodlibet
punctum oppositum centro centri
qui sic distat a centro mundi
quantum centrum deferentis distat
ab eo. Videtur in istis planetis
diametri epicicli
que respicit centrum mundi centro
epicicli existente in auge
vel in opposito augis centrum
in aliis locis centro
epicicli existente respicit [illegible]

[illegible]

[illegible]

Et licet in superiori parte sive qualitate moveatur ab accidente in accidens tamen in inferiori parte ergo [illegible]
Et iste planete manent in superiori parte sive qualitate ab accidente in accidentibus. Et in inferiori [illegible]

[illegible]

[illegible]

Et propter quod quilibet istorum trium continetur est probatum quod medium centrum eius est in superiori parte sui epicicli, scilicet in auge media; hoc enim est proprium et in mercurio et in aliis planetis. Et autem varia variatur in aliis planetis et in qualibet apparet motus motus [illegible] planete est in inferiori parte sui epicicli. Et in quadraturis [illegible] est in longitudinibus mediis epicicli [illegible] planete [illegible] tempore [illegible] sui epicicli in quo tempore sol pervenit ad [illegible]

[illegible]

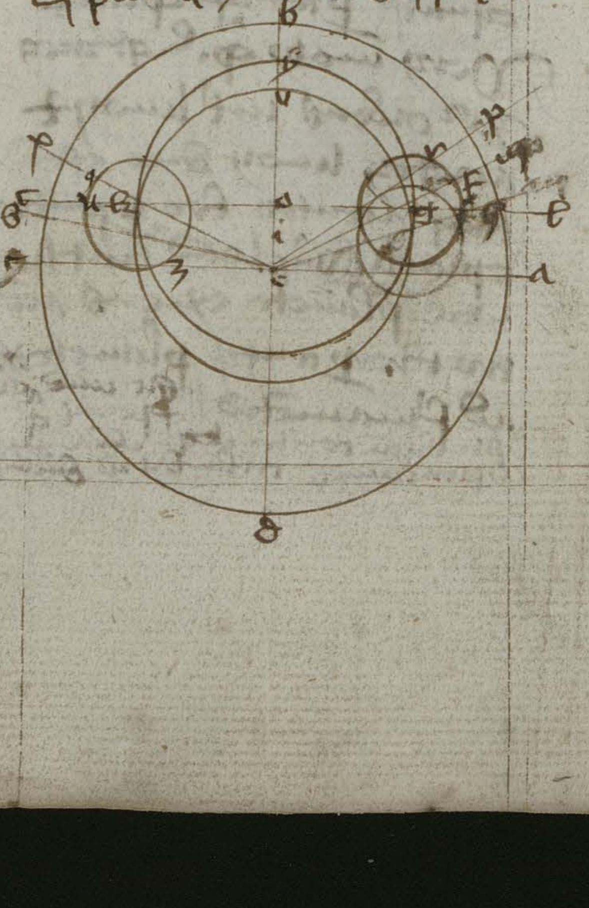
[illegible]

49	810
[illegible]	[illegible]

516

[illegible] ... medie est punctus que ... linea ... pertransit ... circuli ... augis ... distat ... centri in circulo [illegible]

[illegible]



Equatio centri in epiciclo est arcus epicicli cadens inter augem mediam et veram. Et equatio centri in zodiaco est arcus zodiaci cadens inter medium motum epicicli et verum motum epicicli. Et in quantum proportione se habet linea equationis ad suum deferentis semidiametrum proportione se habet [illegible] quod per [illegible] planetarum que cadit inter lineas [illegible] distinctas [illegible] accipitur linea in tabula accipienda est ut [illegible].

Medius motus cuiuslibet superiorum et Veneris est arcus zodiaci [epicicli a centro] cadens inter lineam [illegible] lineam ductam ex centro [illegible] ab distinctis lineis ex centro equantis [illegible] per centrum epicicli.

Verus motus epicicli est arcus zodiaci cadens inter lineam [illegible] lineam ductam a centro terre per centrum epicicli. [illegible] linea [illegible] planete [illegible] centro terre per centrum planete ad firmamentum [illegible]

[illegible] arcus epicicli [illegible] inter augem [illegible] arcus epicicli cadens inter augem mediam [illegible] ad zodiacum [illegible] est [illegible] angulus [illegible] planete [illegible] angulus [illegible] arcus [illegible] in zodiaco [illegible] planete [illegible]

[illegible]

Radix vero planetarum in sua certificatione dicitur sed in principio arcus zodiaci in principio ab Ariete [illegible] planum ductum a puncto terre supposito augibus eccentricorum. Centrum vero medium planete dicitur arcus zodiaci [illegible] inter augem eccentrici et medium motum epicicli. Et in sole dicitur argumentum et in luna centrum vel longitudo duplex vel duplex inter [illegible]. Centrum verum planete est arcus zodiaci [illegible] inter augem eccentrici et verum motum epicicli.

¶ Argumentum est medium dicitur arcus epicicli cadens inter augem mediam et centrum planete. Argumentum est verum dicitur arcus epicicli cadens inter augem veram et centrum planete [illegible]

[illegible]

Argumentum est medium [illegible]

[illegible]

[illegible]

Et in vna ad medietatem circuli scilicet habet equantem centrum in 3o a centro medio et addatur centrum centri in opposito augis medio ut habeantur centri in 3o et 4to in circulo et in ultima fit ... sicut patet in figura. Et auges equantis circuli sunt in auge et in opposito augis centri ... sunt predicti equantes

[illegible]

[illegible]

est uniformiter difformis [illegible]
[illegible] / et pro illa
[illegible] alia est
[illegible] in capite [illegible]
[illegible]
[illegible] est uniformiter [illegible]
[illegible]
[illegible]
[illegible]
[illegible] in qua [illegible]
[illegible] in [illegible] augere
[illegible] in qua in capite [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

[illegible]

Equacio argumenti planete dicitur arcus zodiaci cadens inter verum locum planete et verum locum epicicli. Et manifestum est quod quanto plus accedit centrum epicicli ad centrum terre argumento [illegible] planete uno et eodem existente tanto plus crescit equatio argumenti quare

maiores sunt equationes argumenti centro epicicli existente in longitudine propiori quam centro ipso existente in longitudine media. Et ideo sunt equationes in longitudine media quam in auge [illegible]

[illegible]

[illegible]

Equationes argumenti scripte in tabulis sunt excessus ... si fuisset centrum epicicli in longitudine media equantis ... quod centrum epicicli videatur per medium equantem ... super centrum equantis.

Et dicitur tunc centrum epicicli esse in longitudine media equantis quando dyameter epicicli stat ... perpendiculariter super dyametrum ...

[illegible]

[illegible]

Differentie equationum que sunt inter equationes in longitudine media et inter equationes que sunt in auge cum diversitatibus dyametri circuli brevis ad longitudinem longiorem. Et dico quod equationum que sunt in longitudinibus mediis et in alta auge cum diversitatibus dyametri circuli brevis ad longitudinem propiorem. Et iste diversi-

tatis circuli brevis scribuntur in tabulis

[illegible]

[illegible]

Excessus autem linee pertinentis a centro sive ad augem equantis ad lineam pertinentem ab eodem centro sive ad longitudinem mediam equantis divisus in 60 partes dicuntur minuta proportionalia ad longitudinem longiorem. Excessus vero linee pertinentis ad longitudinem mediam ad lineam pertinentem ad longitudinem propiorem dicuntur minuta proportionalia ad longitudinem propiorem.

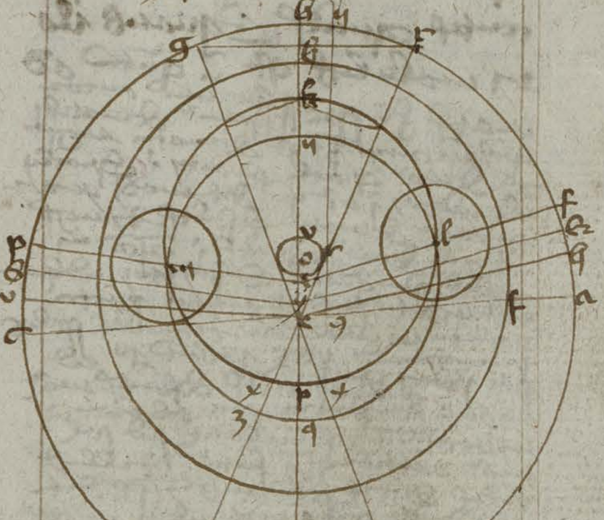
[illegible]

Quare autem duplex dyametri ad longitudinem propiorem addatur, ad longitudinem vero longiorem minuatur [illegible] (Equacio) centri [illegible] patebit inspicienti in figura. Quanto enim ut dictum est centrum epicicli plus appropinquat ad centrum terre tanto plus maioratur quantitas arcus [illegible]

[illegible]

[S]equitur de inventione centri circulorum. [illegible] duos circulos [illegible] unius [illegible] in eadem superficie plana positos [illegible] equales [illegible] in duplici dispositione [illegible] contingere [illegible]

[illegible]



Gro motu firma(men)t(i) qui est
ab oriente in occidentem; (con)se(quen)ter
firmamento (con)ueniens (secundu)m auge(m)

[illegible]

[illegible]

[illegible]

[illegible]

Epiciclus vero mercurii motu proprio circumferentiam ecce-ntrici ab occidente in orien-tem ab arcu ... motu sol ... Unde apparet quod centrum epicicli bis perficit bis circumferentiam eccentrici in anno ita centrum epicicli mercurii bis perficit eccentricum suum in anno vel in uno anno et in ... alia cum motu augis.

[illegible]

[illegible]

[illegible]

Est autem equantis circulus qui dividit medium aliorum inter duos motus scilicet medium et verum. Medius motus vocatur planetarum quantitas arcus zodiaci inter lineam exeuntem a centro equantis per centrum epicicli et iste medius motus est idem cum medio motu solis. Et quia iste tres linee semper distant per lineam exeuntem a centro terre solis per centrum solis et linea exiens a centro equantis mercurii per centrum epicicli. Et linea exiens a centro terre per centrum distantie equidistantes. Et iste tres linee semper equaliter erunt equidistantes aut omnes erunt una in diversis temporibus varia eadem linea aut due tantum eadem.

[illegible]

[illegible]

Consequenter autem praedictum quod centrum
epicycli Mercurii et aux centri
in contrarias partes [illegible] in
tempore [illegible] ut sol motus
motu [illegible]. Dicit vero
epicycli et aux centri et
puncta centri deferentis semper
in temporibus aequalibus angulos aequales
describunt super centrum aequantis et
ab eis [illegible] describunt

motus in plus circumferentia ut in
temporibus aequalibus angulos aequales
describit in plus circulo quam
in angulos in aequante describit [illegible]
[illegible] epicycli
[illegible]
[illegible] aequantis

[illegible]

[illegible]

Ex hoc iam dicto patet apparens
[illegible] defectus
[illegible] in qualibet parte
equalis [illegible]
[illegible] defectus
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Et huius autem diffinitionis ... passio est arcus per circulum partem huius diffinitionis quem ... modo est

similis arcus / pars ... circuli aequatio ... in ... Et hoc contingit ... centrum ... etc.

[illegible]

Et quia autem diffinitionis accidit ab auge equantis versus orientem ... diffinitionis ... in quo centrum epicicli ad augem equantis in progressione signorum accidit ad augem equantis talis ... accidit ... contingit ... deferentis ad augem equantis versus orientem etc.

[illegible]

Apparet [illegible] quibus [illegible] centrum epicicli [illegible] in auge [illegible] centrum epicicli [illegible] [illegible] alterius [illegible]

[illegible]

[illegible]

[illegible]

Et quando centrum epicicli est in auge tunc est in puncto deferentis qui plus maxime remotum a terra et plus se in puncto maxime remoto a terra sed non plus se in puncto deferentis minime propinquo centro terre quod quando est in opposito augis quia prius fuit dictum deferentis sunt ambo circuli sunt eccentrici et hoc est centrum epicicli in dicta auge equantis. Sed duo sunt loca in quibus maxime accedit centrum epicicli centro terre et in aliis locis non potest tam accedere. Ista non duo loca sunt duo puncta opposita opposito augis deferentis [illegible] [illegible] [illegible] deferentis [illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

Sed secundum centrum epicicli est in auge sui deferentis scilicet in capite ut est visum circumferentie in suo deferente et primum centrum deferentis in capite ut est visum [illegible] in suo proprio circulo. Et quando centrum epicicli est in capite lune [illegible] capite [illegible] angulus equantis tunc centrum deferentis est in puncto contactus parvi [illegible] ipsa luna et tunc [illegible] deferentis est in maiori remotione ab auge equantis et tunc est centrum epicicli in opposito augis deferentis quando tunc est in minori appropinquatione ad terram. Et tunc centrum deferentis descendit plus in suo proprio circulo et plus remotum a centro augis deferentis centro terre quod faciliter apparebit inspicienti figuram et intelligenti modum superdictum. Sed [illegible] centrum epicicli est in suo arcu deferentis qui est inter duas partes [illegible] capitis lune [illegible] quando capita sunt propinqua oppositi augis equantis [illegible] est in opposito augis deferentis [illegible]

[illegible]

et centri deferentis in suo [illegible] circulo
[illegible] sequitur quod cum centrum
epicicli fuerit in capite linee coniunctionis
sive centrum deferentis est in puncto
contactus [illegible] sequitur 2o quod
in [illegible] illo in quo centrum epicicli fuerit
in capite linee coniunctionis [illegible]
augis equantis sive est in [illegible] deferentis
augis [illegible] mercurii
[illegible] quod sive centrum
deferentis descendit in sua parte [illegible]
[illegible]
augis [illegible] sit quod [illegible]
[illegible] mercurii [illegible]
quod [illegible] centrum epicicli fuerit in
[illegible]
coniunctionis [illegible] augis [illegible]
[illegible]
[illegible] centro epicicli [illegible]
augis [illegible] est [illegible] centrum epicicli
[illegible]
[illegible]
[illegible]
[illegible] centrum [illegible]
[illegible] centrum [illegible]
[illegible] augis deferentis [illegible]
deferentis [illegible]
centrum deferentis [illegible]
[illegible] in puncto [illegible]
[illegible]
[illegible] epicicli [illegible] in puncto [illegible]
capite linee coniunctionis [illegible]
augis sive centrum deferentis [illegible]
in puncto contactus [illegible]
[illegible] est [illegible] augis [illegible]
[illegible] centrum epicicli in [illegible]
[illegible] centrum deferentis in [illegible]
[illegible] centrum epicicli
[illegible] capite [illegible] equantis [illegible]
[illegible] deferentis [illegible]
[illegible] centrum deferentis [illegible]
[illegible] centrum epicicli [illegible]
[illegible] est puncto contactus [illegible]
linea [illegible] puncto est quod [illegible]
[illegible] illo [illegible]
[illegible] augis equantis [illegible]
[illegible] centrum deferentis [illegible]
[illegible] centro equantis [illegible]
[illegible]
[illegible] centrum [illegible] centro
[illegible] centrum epicicli [illegible]
centrum deferentis descendit in [illegible]

[illegible]
[illegible]
[illegible]
[illegible] puncto [illegible]
[illegible]
[illegible]
[illegible]
Et ex hoc sequitur quod [illegible]
epiciclus in una parte [illegible]
centrum deferentis et alia parte [illegible]
[illegible] in [illegible] linea
[illegible] centrum [illegible]
deferentis et [illegible] appropinquat
centrum epicicli [illegible] centro [illegible]
appropinquat in capitibus linearum
coniunctionis [illegible] autem
[illegible]
[illegible] quod [illegible]
epiciclus [illegible] deferentis [illegible]
[illegible] centrum deferentis [illegible]
[illegible] linea [illegible]
[illegible] centrum epicicli [illegible] appropinquat [illegible]
[illegible] appropinquat [illegible] in capitibus
[illegible] linearum coniunctionis [illegible]
[illegible] autem [illegible] illam [illegible]
[illegible] epicicli [illegible] in capite quod [illegible] centrum
deferentis [illegible] in puncto contactus [illegible]
[illegible] circumferentia [illegible]
quod centrum epicicli [illegible] centrum deferentis [illegible]
[illegible] linea [illegible]
[illegible]
[illegible]
[illegible] appareat
[illegible]
[illegible] centrum epicicli [illegible]
[illegible] appropinquat [illegible]
[illegible] linearum [illegible]
[illegible] centrum deferentis [illegible]
[illegible]
[illegible] centrum [illegible]
[illegible]
[illegible]
[illegible] appropinquat [illegible]
[illegible]
[illegible]
[illegible]

Sequitur de [illegible] motus mercurii
et veris et medium centrum
[illegible] et medium argumentum et verum
et [illegible] centrum in 3o et in

[illegible]

Equationes vero que ponuntur in tabula sunt equationes ac si centrum epicicli fuisset in circumferentia centri equantis vel deferentis. Cum igitur centrum epicicli est in auge sui deferentis ... illa que est ... augem ... quando contingunt equationes ... que ibi contingunt sunt ... in tabula. Si autem contingit in alia parte vel ... centrum epicicli deferentis ... aliquo ... deferentis ... [illegible]

equationes argumenti proportionales [illegible]
[illegible] continue [illegible] triplicia sunt paria inter se [illegible]
[illegible] proportionalia [illegible] longiores
longior et est equatio lune
[illegible] ad centrum epicicli ipso existente in auge et
[illegible] ad lineam [illegible]
[illegible] Equationes
[illegible] in [illegible] proportionalia [illegible]
[illegible] sunt equationes lune
[illegible] centro [illegible]
[illegible] lineam [illegible]
[illegible] est magna [illegible]
[illegible] epicicli centro terre
[illegible] loco [illegible]
[illegible] equatis [illegible]
[illegible] lineam [illegible] non
[illegible] proportionalia et [illegible]
[illegible] diametri [illegible]
[illegible] est [illegible] sed in
tabulis superioribus [illegible]
[illegible] pro [illegible] in [illegible]
[illegible] tabulis [illegible]
in [illegible] tabu-
[illegible] ponuntur [illegible]
[illegible] paria [illegible] inter se
proportionalia [illegible]
[illegible] in tabulis [illegible]
[illegible] centrum epicicli [illegible] in puncto
[illegible] in [illegible]
[illegible] in [illegible]
[illegible] sunt paria inter se
[illegible] proportionalia [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] equatio

[illegible]
[illegible]
[illegible]
ab auge [illegible]
ad centrum [illegible]
equationis [illegible] puncti [illegible]
[illegible] centri planete ab auge epicicli [illegible]
[illegible] puncti [illegible] vel [illegible]
epicicli ab auge equantis [illegible]
[illegible] in tabulis superioribus [illegible]
maior [illegible] argumenti [illegible]
argumenti [illegible] centri
[illegible] equationes tabularum [illegible]
[illegible] ponuntur [illegible]
equationes [illegible] ad [illegible]
epicicli equantis [illegible] ad [illegible]
[illegible]
[illegible] in alia [illegible]
[illegible] distantia centri epicicli ab
auge [illegible] argumenti [illegible]
[illegible] est [illegible] centro [illegible]
[illegible] equalis [illegible]
centri [illegible]
in [illegible] alia [illegible]
equalis [illegible]
[illegible]
[illegible] equationes tabu-
[illegible] in una linea [illegible]
[illegible] in alia [illegible]
[illegible] in epicicli [illegible]
[illegible] ab auge equantis [illegible]
[illegible] ponuntur [illegible]
epicicli [illegible] in puncto [illegible]
[illegible]
[illegible] ponuntur [illegible]
epicicli [illegible] et
[illegible]
in [illegible] centri [illegible]
[illegible] equationis [illegible]
[illegible] est [illegible] in [illegible]
[illegible] centri
epicicli ad centrum [illegible]
[illegible] epicicli in
[illegible] est in auge et puncto [illegible]
[illegible] epicicli in puncto [illegible]
[illegible] loca [illegible] locum
[illegible] equantis [illegible]
in puncto [illegible]
in quo centrum epicicli [illegible]
[illegible] centro [illegible] loco [illegible]
[illegible] equantis [illegible] puncto

[illegible]

Dicimus uero secundum differentias et equalitates dispositiones sed tres superiores in eadem loco eleuantur in quo aequantis polus et circuli equinoctialis ueniat ita cito motu sed pol. Centrum medium motus epicicli est sed medium motus epicicli ueniat [illegible] quod habere et [illegible] ... [illegible] Centrum una et [illegible] aequantis polus [illegible] polus et alia que [illegible] equalis

[illegible]

[illegible]

[illegible]

Dies autem augentur et equales in locis sunt nisi [illegible] ad motum [illegible] post hoc quod dies [illegible] in latitudine a meridie et a septentrione [illegible] ut [illegible] sit aliquid [illegible] dies et equales in eadem superficie plana [illegible] [illegible] que [illegible] polo [illegible] et [illegible] dies [illegible] [illegible] in latitudine

[illegible]

[illegible]

Et sunt alia de venere sunt plura superioribus tribus et hec de venere et mercurio dicta sufficiant

[illegible]

pro pluribus [illegible]

[illegible]

[illegible]

in libro [illegible]

[illegible] in almagesti [illegible]

[illegible]

[illegible]

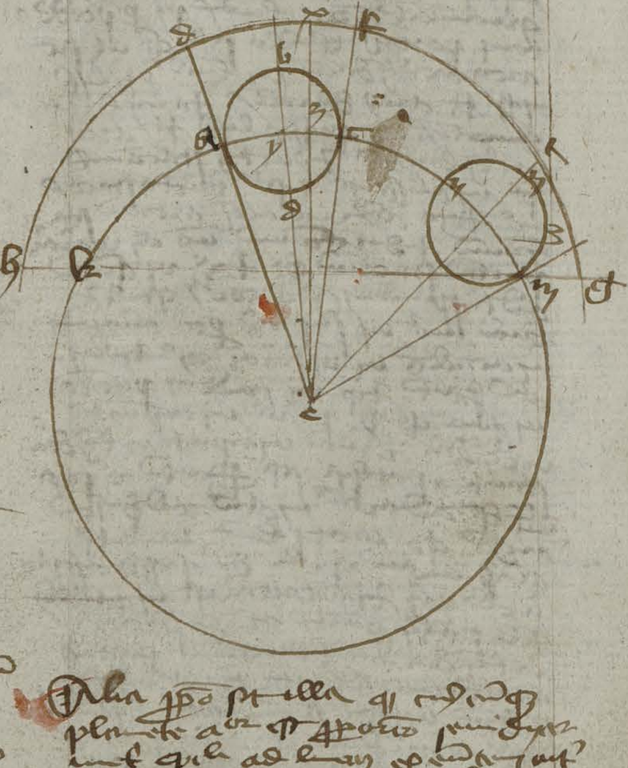
Sequitur de retrogradatione planetarum. Planeta vero dicitur directus quando motus eius iuvatur motu epicicli aut fit maior. Retrogradus est quando motus eius non iuvatur motu epicicli. Statio prima dicitur punctus epicicli in quo incipit retrogradari planeta. Statio secunda dicitur punctus in quo planeta desinit retrogradari vel incipit dirigi et ipsa [illegible] est stacio [illegible]

[illegible]

[illegible]

Pa[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

Statio prima in figura significatur per arcum epicicli cadentem inter verum augem epicicli et punctum stationis prime in prima figura. Statio 2a in 2a figura dicitur arcus epicicli cadens inter augem verum et punctum stationis 2e in 2a figura. Arcus directionis [illegible] per partem stationum ad 2am. Arcus retrogradationis est arcus epicicli cadens inter [illegible] stationem et 2am stationem [illegible] computatus [illegible] augem epicicli [illegible] apparet [illegible] directionis [illegible]

[illegible]

[illegible]

Et ille arcus superior minus intersecatur quam rectus epicicli accedit ad centrum terre, quare minuitur puncta stationis

[illegible]

+ p[illegible]

[illegible]

Et per istum habetur arcus prime

[illegible]

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Saturnus	222	28	140	10	0	Aux
	228	16	138	8	4	longitudo media
	231	0	136	2	0	opposita augis
Jupiter	488	10	122	21	16	Aux
	491	20	120	9	46	longitudo media
	494	22	118	7	10	opposita augis
Mars	314	76	80	2	48	Aux
	326	18	12	23	74	longitudo media
	338	30	64	13	10	opposita augis
Venus	331	42	43	13	76	Aux
	336	18	41	16	12	longitudo media
	334	42	40	8	0	opposita augis
Mercurius	140	28	21	2	16	Aux
	228	18	22	7	16	longitudo media
	239	18	22	20	47	opposita augis
		24	22	10	24	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	

[illegible]

[illegible]

Medius motus cuiuslibet [illegible]

[illegible]

Medium motum cuiuslibet planete ad tempus propositum qui non scribitur in tabulis sic accipies. accipe radicem in annis collectis propositi accipe medium centrum

in annis et partibus annorum intermediorum qui idem sunt uel propinquiori annorum collectorum et est idem quod queritur. Item centrum est [illegible] de radice si propositum si non addetur radi- ci [illegible] sequentem et [illegible] est motus medius planete ad tempus propositum

[illegible]

[illegible]

Media quantitas et apparens attenditur in medio motus [illegible]

[illegible]

Puncta eclipsis et digiti eclipsis dicuntur 12me [illegible] solis vel lunaris

[illegible]

[illegible]

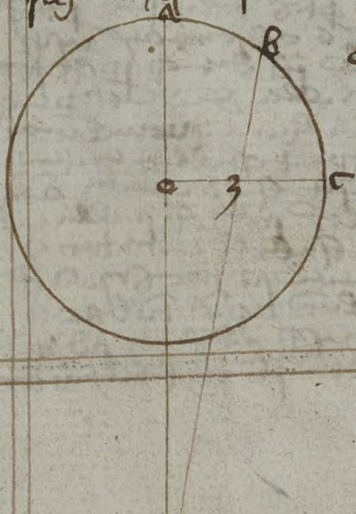
Minuta casus dicuntur minuta celi que pertransit luna a principio eclipsis ipsius ad medium sue obscurationis totius vel sic ipsius ad principium totius obscurationis sue totius obscurationis. Item in proposito minuta casus sunt minuta celi que pertransit luna a principio eclipsis solis ipsius ad medium [illegible]

[illegible]

Minuta dimidie more sunt minuta celi que pertransit luna a principio obscurationis ipsius ad medium obscurationis et propter hoc sic ipsa dicuntur minuta permotionis lune extra in umbra hoc est veniet ipsa in quo tempore transit per ea.

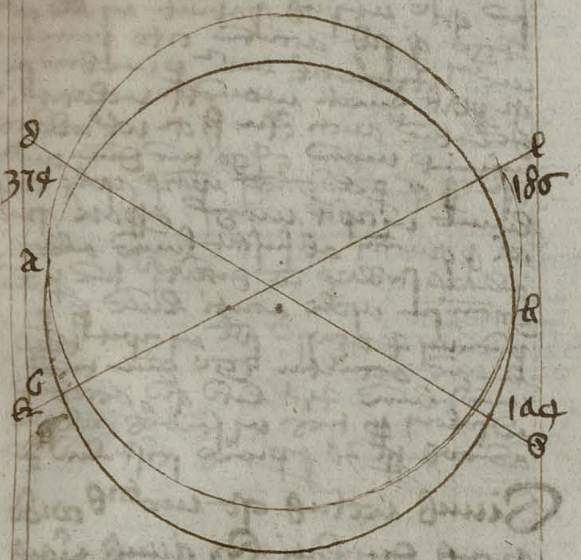
[illegible]

[illegible]



[illegible]

[illegible] a b a in [illegible] 74 [illegible] a [illegible] 86 [illegible] [illegible]



[illegible] in tabula eclipsis [illegible] 12 [illegible] 48 [illegible] 60 [illegible] 86 [illegible] in tabula [illegible] eclipsis [illegible] latitudinis [illegible] in tabulis eclipsis [illegible] 12 [illegible] 86 [illegible] a b a [illegible] a b [illegible]

a [illegible] 374 [illegible] a b [illegible] a b a [illegible] in latitudine [illegible] eclipsis [illegible] in latitudine [illegible] eclipsis [illegible] in eclipsi [illegible]

Cum autem planetarum ad [illegible] computantur / sinus [illegible] ad revolutiones [illegible] sinus minores [illegible] [illegible]

[illegible] planetarum [illegible]

[illegible]

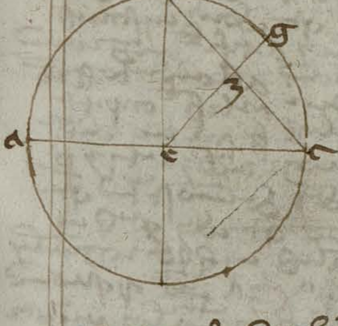
Tardi cursus planete quando sunt diminuti equationes, i. tardi equationes per quas sunt retrogradi velociores, equationes i. aucti ut quando sunt directi. Aucti vero cursus dicuntur ut quando equationes centri addende super medium equationes diminuti ... Aucti linee dicuntur cum accedunt ad polos vel ab altero linee cursus quando accedunt ad polos vel ab eis ...

[illegible]

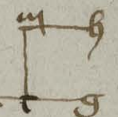
Sinus rectus est medietas corde arcus duplati. Sinus versus est pars semidyametri que est inter arcum et sinum rectum cadens orthogonaliter. Umbra recta est quando fiat aliquod corpus perpendiculariter super superficiem terre elevatum. Umbra versa est quando fiat corpus in superficie perpendiculariter et orthogonaliter fixum umbram vertens.

[illegible]

[illegible]



[illegible]



Naturas planetarum et speras et operationes planetarum et signorum declarabit tale quid ... quia sol fuit in capite arietis qui nobilior est planetarum et ariete qui nobilius signorum ... et ... qui est ... nobilior ... equinoctialis qui est in medio mundi diei et noctis ...

[illegible]

Latitudo planete dicitur distantia ipsius a via solis. Declinatio planete dicitur distantia eius ab equinoctiali sed aliter. Unde patet quod sol non habet latitudinem sed solum declinationem. Et nota declinationem accipimus in spera per distantiam centri solis ab equinoctiali circulo quando fuerit centrum solis in equinoctiali apud auctorem [illegible]

[illegible]

Latitudinem vero lune accipimus

p[er] distinctionem quia con[structio] l[atin]e debet
p[er]ficere p[er] unu[m] q[ui]d fiat congru[e]
l[atin]e cum [con]ctis solus, i. accipit
d[ictio]nes [illegible] accipiu[n]t d[ictio]nes
[illegible] diverso [illegible]
et l[atin]e et [illegible] l[atin]itatem
l[atin]e accipiu[n]t [illegible]
[illegible] alia solus et si fuerint
[illegible] l[atin]a d[ictio]ne [illegible]
[illegible] et accide[n]tales
[illegible] et non
[illegible] l[atin]e [illegible]
et si fuerint [illegible]
[illegible]
[illegible]

[illegible]

[illegible]

Et s[ecundu]m [illegible] l[atin]e [illegible]
[illegible] aliud solus et
[illegible] l[atin]e [illegible]
[illegible] l[atin]e [illegible]
[illegible] l[atin]itatem [illegible]
[illegible] l[atin]itate [illegible]
[illegible] debent ab [illegible]
[illegible]
[illegible] alia solus [illegible]

[illegible]

Latrando Lune ... qui ...

In quibus ptis

Et per tabulam binarii inveniuntur
latitudines in epiciclo. Et per
tabulam quaternarii inveniuntur
latitudines in eccentrico. Et dicitur
tabula binarii quia per duos
intrantes et tabula ista fundatur
[illegible] sed in medietatem
circuli. Et quaternarii quia per quattuor
intrantes et ista fundatur [illegible]
partem circuli [illegible]
[illegible] quaternarii [illegible]
[illegible] tabula que deservit
[illegible] equationem [illegible] tabula
binarii [illegible]

[illegible]

[illegible]

Quia vero tabula binarii est ad quelibet tempora et annos intrans, nunc vero dicendum. Et quia tabula quaternarii est ad certum tempus inventa, ad cuius p[ro]d[ic]tionem [illegible] certum duodecim capitum, scilicet que scilicet in tabulis binarii et continuantur [illegible] ad [illegible] certum distinctionem duas computata [illegible] polo [illegible] que dicitur eclipsis que in ipsa ut patet fiunt eclipses lune et solis [illegible]

[illegible]

[illegible]

2a

3a

[illegible]

[illegible]

Et latitudo que ponitur in tabula quartarum est distancia [illegible] a linea polus que distancia polus est parvula [illegible] est propter [illegible] modo et magis [illegible] est in remotis locis [illegible] propter [illegible]. Et sciendum quod in tabula quartarum latitudines in principio in fine maiores in medio mediocres. Patet ergo quod in uno [illegible] latitudinibus [illegible] una [illegible] est ab alia [illegible]

[illegible]

[illegible]

[illegible]

Compositores tabularum astro-
nomicarum magistri qui volunt
primum motus ... [illegible]
... in quibus [illegible]
... ab aliis [illegible] possunt
motus equivalentes in quibus
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

[illegible]

Caput cum cauda ... in motibus sunt

Caput cauda verorum mediorum motuum et ... in veritate latitudinis in ... superioribus et alie in ... in ... Caput cum cauda verorum motuum ...

... loco capitis ... contrario quodammodo ... est medio motu solis et ... illo ... ad ... argumenta illorum ... medio motu solis

[illegible]

[illegible]

Vera loca capitis draconis computata ab arcu 2ᵒʳ[?] praecessoris signorum secundum arcum tabularum. Vera loca capitis draconis computata secundum arcum propriae tabulae. Similiter medius motus capitis capud frequenter [illegible] Item [illegible] medium capitis [illegible] signis [illegible]

[illegible]

[illegible]

Compilatores tabularum super Arim que est civitas Aumdia dicuntur fuisse precipue Hermes [illegible]minus Ptholomeus Albategni Albumasar Alga

versus. Arim distat ab extremo Gadibus scilicet Alexandri et Herculis quantum ab extremo partis

Distat etiam a Gadibus Herculis parte in occidente 90 gradibus

Item a Gadibus Alexandri parte in oriente 90 gradibus ab utroque polo 90 gradibus

[illegible]

[illegible]

Et qui vult intrare tabulas
de aliis locis [illegible]
[illegible] in tot [illegible]
quot [illegible] distat locus ab
[illegible] Et [illegible]
dies [illegible] collatis
[illegible] planetis ad meridiem
[illegible]
[illegible] illud [illegible]

[illegible]

[illegible]

Et quia ut hoc patet ponatur centrum solis in linea meridionali et notetur locus alicuius in [illegible] lumbi et fiat eius [illegible] ad [illegible] post [illegible] quidem [illegible] locus in [illegible] quod [illegible] habuerit ante meridiem [illegible] post [illegible] ad [illegible] [illegible]

alicuius regionis [illegible] regionis [illegible] et eclipsis [illegible] altitudinem in [illegible] lumbi solis et lune in dorso [illegible] latitudinem superioris lumbi [illegible] mutando eam altitudine [illegible] diametro solis et lune [illegible] solis [illegible]

[illegible]

[illegible]

Nota quod auges omnium planetarum moventur super orientem a Ptolomeo in 100 annis et totidem super orientem in aliis 100 annis [illegible] motu. Et omnium planetarum ab Albategni in 66 annis [illegible] secundum [illegible]. Alfraganus [illegible] in 100 annis uno gradu super orientem.

[illegible]

dicit quod auges omnium planetarum in nonaginta annis a temporibus [illegible]. Secundum Albategni [illegible] in 66 annis [illegible]. Secundum Alfraganum [illegible] auges [illegible]

[illegible]

De Auges planetarum moventur motu octave spere

Opinio Ptolomei

Opinio Thebit

duplex [illegible]

[illegible]

Opinio alba tegni

Alfragani

[illegible]

[illegible]

Item nota quod quandoque sol fuit
in medio centrici sui quando maior
[illegible] in latitudine [illegible]
magis elevatus altitudine in
[illegible] astrolabii [illegible]
in [illegible]
[illegible] in medio [illegible]
in alio medio centrici [illegible]
[illegible] est distantia [illegible]
altitudo in [illegible] sol in [illegible]
centrici in medio [illegible]
[illegible] distantia [illegible]
erit [illegible] Et [illegible]
[illegible]

[illegible]

[illegible]

[illegible]

Hoc modo computato in libro [illegible] in meridie in quo die [illegible] sit in auge [illegible] alliendum et in fine solet et quando [illegible] in [illegible] habebit in quo [illegible] sit [illegible] modo [illegible] albategni in [illegible] quando augeo [illegible] planetarum [illegible] et tabulas [illegible] hoc [illegible] et magnum habuit [illegible] [illegible]

[illegible]

[illegible]

[illegible]

[N]ota [illegible] planetarum [illegible] in libro [illegible] plancte in tabulas [illegible] in [illegible] que incipit [illegible] et [illegible] ipsi [illegible] planetarum [illegible] apparent [illegible] duo plan[etas] [illegible]

Si remanserit [illegible]

[illegible] Si remanserint [illegible]

[illegible] Si remanserit [illegible]

Si plures [illegible] remanserint [illegible]

Si [illegible] remanserit [illegible]

[illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] theorica [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
orbes [illegible] [illegible] et
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

Explicit theorica pla
netarum per manus Nicolai
Bart. de Grabostw sub
Anno domini 1427

Sequitur eclipsis lune

1	1425	11	Nove	29	9	26	15	13	55	2	1	22	46	3	24	48
4	1428	9	Septe	34	5	34	20	12	14	29	1	24	57	3	27	30
5	1429	3	Marcii	58	10	21	15	11	44	50	1	40	11	3	20	22
5	1429	9	Septe	26	12	13	16	14	22	40	1	12	36	3	31	16
7	1431	7	Julii	6	11	25	44	4	35	55	1	9	33	3	19	6
8	1432	1	Janu	33	4	18	48	15	1	59	1	11	31	3	35	52
9	1433	1	Janu	24	13	6	6	12	45	58	1	23	42	3	25	8
11	1435	2	Nove	14	16	6	14	13	54	57	1	16	18	3	31	58
13	1436	5	Marcii	1	11	1	20	16	39	6	1	7	2	3	40	6
12	1436	10	Octo	46	17	55	56	13	29	20	1	19	27	3	21	42
15	1439	3	Marcii	7	15	1	15	16	16	35	1	8	29	3	40	24
16	1440	2	Febru	42	15	18	9	10	38	4	1	38	33	3	17	6
17	1441	12	Decemb	41	11	28	27	0	40	56	1	28	9	3	58	18
18	1442	12	Decemb	36	3	18	35	15	19	10	1	10	13	3	35	36
19	1443	12	Decemb	39	17	7	48	12	57	3	1	12	16	3	25	18
1	1444	6	Junii	7	7	6	51	4	41	29	1	10	35	3	21	10
3	1446	10	Octo	5	13	14	2	11	42	34	1	42	34	3	33	8
4	1447	4	Aprilis	1	14	24	54	13	48	53	1	14	7	3	25	46
5	1448	9	Septe	12	17	24	19	1	0	24	0	34	7	1	8	14
7	1450	1	Janu	22	12	46	8	14	46	8	1	12	45	3	35	4
7	1450	7	Julii	25	6	21	33	18	21	9	1	4	50	3	44	7
8	1451	7	Julii	14	11	26	5	7	48	7	0	28	10	2	57	14
12	1455	15	Maii	3	7	49	16	2	45	52	0	55	33	1	50	47
13	1456	3	Marcii	22	16	49	23	0	23	46	1	21	41	0	43	22
14	1457	9	Septe	4	10	9	46	14	28	40	1	13	1	3	33	44
17	1460	7	Julii	4	17	22	13	3	14	42	1	0	27	2	0	50
17	1460	12	Decemb	18	13	7	43	15	17	43	1	10	22	3	35	35
18	1461	6	Junii	23	8	40	18	20	16	48	1	3	47	3	48	12
18	1461	12	Dece	18	3	41	0	13	55	29	1	21	36	3	25	40
19	1462	6	Junii	12	13	58	33	6	47	53	1	23	12	2	46	28
Aurei numeri	Anni incarnationis	Mensium numerus	Dies eclipsis	Dies eclipsis	Hore eclipsis	Minuta eclipsis	Hora eclipsis	Puncta quantitatis	Minuta obscurationis	Hora in luna	Hore [illegible]	Minuta casus	Hora eclipsis	Hore durationis	Minuta eclipsis	Data in luna

solis

Aureus numerus	Anni domini	Numerus mensium	Menses eclipsis	Dies eclipsis	Hore eclipsis	Minuta eclipsis	[illegible] eclipsis	Puncta quantitatis	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] eclipsis	Hore durationis	[illegible] eclipsis	[illegible]
1	1425	11	Nove	10	20	53	51	2	14	30	0	42	25	1	32	50
7	1431	2	Febr	13	7	7	18	8	34	0	0	51	58	1	55	56
9	1433	6	Junij	18	3	14	5	12	32	50	0	59	10	1	39	20
12	1436	4	Aprl	17	5	41	12	0	17	2	0	14	25	0	28	50
13	1437	4	Aprl	16	6	34	59	7	55	10	0	1	51	2	1	54
14	1438	9	Septe	19	22	25	3	5	38	50	0	54	46	1	49	32
15	1439	9	Septe	9	3	33	58	5	26	7	0	58	31	1	51	2
16	1440	2	Febr	4	1	29	20	11	10	42	1	1	10	2	2	20
5	1448	8	Augu	29	21	22	13	9	15	4	1	5	14	2	10	58
9	1450	2	Febr	13	2	17	7	0	58	22	0	24	27	0	48	25
10	1453	12	Dece	1	2	18	38	9	5	39	7	2	53	2	58	37
17	1460	7	Julij	18	55	42	0	0	2	47	0	56	47	1	53	34
19	1462	11	Nove	5	22	37	15	1	9	1	0	26	50	0	53	41

Solis





[illegible]

Coniunctiones eclipsis [illegible] … Duracio totalis

[illegible]										ho	m	2	ho	m	2
1425	Nove	[illegible]	21	25	54	2	[illegible]	30	0	42	25	1	34	50	
1431	febru	12	2	49	18	8	24	0	0	54	58	1	55	56	
1433	Junii	14	3	46	7	12	13	50	0	59	40	1	59	20	
1436	Aple	16	9	19	13	0	14	2	0	14	22	0	28	50	
1434	Aple	7	4	6	59	4	51	10	1	7	54	2	3	54	
1438	septbr	18	22	59	30	7	28	50	0	54	46	1	29	32	
1439	septbr	8	9	7	58	7	26	4	0	58	31	1	54	2	
1440	febro	3	2	1	20	11	10	[illegible]	0	31	10	1	2	20	

Eclipses lune

1425	No	25	10	31	51	12	55	12	1	21	46	3	25	48
1428	De	23	6	56	20	12	41	29	1	24	54	3	24	30
1429	Mar	20	11	13	17	14	44	50	1	40	11	3	20	22
1429	Sep	12	12	58	16	14	22	40	1	12	36	3	31	16
1431	Julii	24	11	34	44	4	35	55	1	9	33	3	14	6
1432	Janu	14	7	48	48	17	1	54	1	11	31	3	37	52
1433	Janu	7	13	56	6	12	44	58	1	12	42	3	27	4
1435	Ma	7	16	56	53	13	51	51	1	16	18	3	31	58
1436	Aple	30	7	24	24	6	39	6	1	4	2	3	40	6
1436	Oct	24	18	18	54	13	29	20	1	19	24	3	31	24
1439	ffe	28	11	39	17	16	16	37	1	8	29	3	40	42
1440	febr	14	16	19	4	10	28	4	1	38	33	3	14	6
14[illegible]	De	14	12	19	24	0	40	58	1	28	9	4	55	16
1442	De	14	3	38	33	17	19	10	1	10	14	3	37	36
1443	De	6	19	40	56	12	54	3	1	21	16	3	27	28
1444	Mai	31	4	38	51	40	41	29	1	19	37	3	21	10

Iste eclipsis [illegible]
[illegible] 36 [illegible] 24 [illegible]
[illegible]
[illegible]
[illegible]

[D]e quo putat / hominis vite / racio versatur

Ex quo patet operis intencio [illegible]
cia tractatus presentis [illegible] que
astronomie [illegible] ordinatur et quia
talis [illegible] est sphera est de [illegible]
[illegible] [illegible] teste philosopho [illegible]
[illegible] Secundo [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] in [illegible] sic [illegible]
Concipiunt [illegible] speciem [illegible]
[illegible] laudabilius [illegible] [illegible] et
decora que [illegible] [illegible] appropriate
[illegible] [illegible] dicta sunt [illegible]
[illegible] est [illegible] [illegible] patet tamen
[illegible] [illegible] nostra
[illegible] [illegible] teste philosopho
[illegible] topicorum Cuius [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
videlicet quod astronomia [illegible] dicit
[illegible] intellectus humanus con-
cipiunt [illegible] [illegible] astrono-
miam laudabilius [illegible] [illegible] et
decora Sed [illegible] [illegible]
talis [illegible] in [illegible] [illegible]
[illegible] in [illegible] [illegible]
intellectus humanus sit [illegible]
Secundum quod concipiunt astronomiam
[illegible] quod astronomia est laudabilis [illegible]
decora Primo dixi quod [illegible]
[illegible] [illegible] quod intellectus sit [illegible]
Et hec [illegible] [illegible] [illegible]
[illegible] quod [illegible] [illegible]
est [illegible] intellectus est [illegible]
[illegible] [illegible] [illegible] [illegible]
philosophum [illegible] politicorum ubi

dicit [illegible] [illegible] [illegible]. Et [illegible]
[illegible] que [illegible] est [illegible] [illegible]
[illegible] [illegible] Secundo [illegible] quod [illegible]
[illegible] est [illegible] intellectus [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] philosophum primo politicorum
vel [illegible] per philosophum [illegible] ethicorum
dicentem quod [illegible] [illegible] [illegible] ad
[illegible] [illegible] [illegible] ad [illegible]
Tercio [illegible] aliud est [illegible] [illegible]
obediat [illegible] intellectum alia
obediant [illegible] [illegible] est [illegible]
[illegible] [illegible] [illegible] politicorum ubi
dicit [illegible] [illegible] dominabitur
corpori [illegible] Secundo [illegible]
quod [illegible] [illegible] premissis [illegible]
Et intellectus concipiunt [illegible]
astronomiam Et hec [illegible]
[illegible] [illegible] [illegible] [illegible] adipi-
scitur [illegible] [illegible] intellectus
[illegible] est [illegible] [illegible] adipiscat
astronomiam [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] per philosophum
3o [illegible] [illegible] [illegible] [illegible]
[illegible] est [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] appetit [illegible] est [illegible]
[illegible] [illegible] per philosophum
ethicorum ubi dicit [illegible] [illegible]
[illegible] [illegible] [illegible] ethicorum dicit
[illegible] [illegible] appetit [illegible] per
[illegible] [illegible] [illegible]
[illegible] quod [illegible] [illegible] videlicet
astronomiam [illegible] [illegible] et [illegible]
assignat [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] corpora-
lem [illegible] [illegible] ad [illegible]
[illegible] esse [illegible] [illegible] [illegible]
Illud intellectus appetit quod est
maioris [illegible] [illegible] est
maioris [illegible] [illegible] [illegible] per
eo quia [illegible] [illegible] capit [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] mathematice [illegible]
[illegible] supponit omnis principia mathe-
maticali Et [illegible] [illegible]

sic ex dictis patet quod mathematica est in se scientia excellens quia scientia principalis est vel in intellectu quantitatis [illegible] astronomia [illegible] quod est laudabilis et delectabilis [illegible] patet quia sive [illegible] sic illud est laudabile et decorum quod ordinatur in finem laudabilem et decorum sed astronomia est huius [illegible] patet per philosophum primo ethicorum. Et secundo [illegible] dicit finem laudandum et honorandum propter illud quod sunt ad finem [illegible] patet per [illegible] dictum [illegible] est [illegible] in [illegible] spatiis. Sed [illegible] laudabilis et decora que ducit nos in cognitionem [illegible] astronomia [illegible] intellectus [illegible] possit [illegible] sicut oculus noctue ad lumen solis [illegible] Ptolomeus in principio libri almagesti [illegible] Et [illegible] astronomia est nos dirigens in deum [illegible] quia ipsa astronomia [illegible] corpora celestia [illegible] in [illegible] motus et magnitudinem [illegible] divina potestas [illegible] ordinem et pulchritudinem [illegible] divina bonitas [illegible] Ista scientia est laudabilis et delectabilis [illegible] est nobilior [illegible] astronomia [illegible] in [illegible] patet [illegible] est nobilior [illegible] nobilius obiectum [illegible] astronomia est de nobiliori obiecto ut puta de corporibus supercelestibus [illegible] et incorruptibilibus que sunt nobilissima [illegible] Concludendo [illegible] dignitatis [illegible] laudabilis et decora [illegible] astronomia [illegible] sit dignitatis ut probatum est [illegible] cuiuslibet alterius libri [illegible]

Quinquaginta [illegible] titulus [illegible] intencio [illegible] ipsius [illegible] sunt [illegible] illud [illegible] Et [illegible] libri [illegible] ipsa [illegible] Sed [illegible] titulus [illegible] Et [illegible] causas [illegible] De [illegible] libri est [illegible] quod [illegible] nos [illegible] tabulas alfoncii et [illegible] et pluribus aliis astronomie [illegible] Sed [illegible] titulus [illegible] vel [illegible] de toto universo et [illegible] sufficiatur [illegible] appellatur. Et quibus [illegible] Et [illegible] pars [illegible] mathematica [illegible] philosophia [illegible] mathematica [illegible] Et [illegible] est mathematica [illegible] astronomia est [illegible] Et [illegible] est pura [illegible] Et [illegible]

[illegible]

[illegible]

Tractatu de sphera in quatuor distinguimus capitula dicturi primo quid sit sphera quid eius centrum quid axis

axis, quid polus, et quod sint sphere, et quid sit forma mundi. Secundo de circulis ex quibus sphera materialis componitur et illa supercelestis que per istam imaginatur et componi intelligitur. Tercio de ortu et occasu signorum et de diversitate temporum noctium et dierum et de divisione climatum. In quarto de circulis et motibus planetarum [illegible] et causis eclipsium [illegible] est toto [illegible] et [illegible] [illegible]

[illegible]

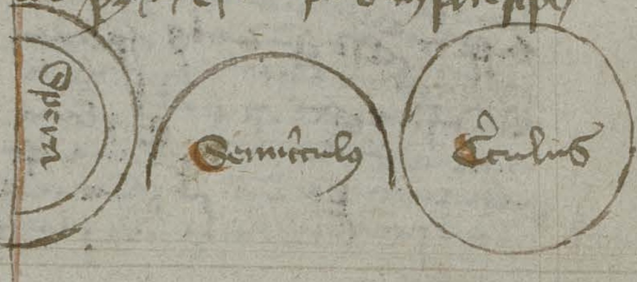
[illegible] quid [illegible] in [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] dicit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] astrologia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] libro [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] est de toto [illegible] [illegible] planetarum [illegible]

[illegible]

Spera igitur ab euclide describitur

Spera est transitus circumferentie dimidii circuli quotiens fixa diametro circumducitur quousque ad locum suum redeat circumducta. Vel spera est tale corpus solidum et rotundum sub tres dimensiones, id est quod [illegible] quod describitur ab arcu semicirculi circumducta.

[illegible]



Spera vero a Theodosio sic describitur. Spera est corpus solidum et rotundum una superficie contentum in cuius medio est punctus a quo omnes linee ducte ad circumferentiam sunt equales

[illegible]

Et ille punctus dicitur centrum spere. Linea vero recta transiens per centrum spere applicans extremitates suas ad circumferentiam ex utraque parte dicitur axis spere. Duo vero puncta axem terminantia dicuntur poli mundi

[illegible]

Item dicitur esse ... dyametro et axis [illegible] qui axis est ... in mobilibus. Dyameter vero est in mobilibus. Item unius spere possunt esse plures dyametri sed non axes. Item axis [illegible] spere sed dyameter in [illegible] spere [illegible] Item [illegible] linea [illegible] [illegible] axis in [illegible] linea est [illegible] spere alia et [illegible] spera [illegible] lineam [illegible] motum [illegible] spera [illegible] Item dicitur dyameter [illegible] dividit [illegible] speram in [illegible] [illegible] Item [illegible] est duo et [illegible] [illegible] in duo [illegible] Item dyameter potest esse in circulo [illegible] ut linea in circulo [illegible] [illegible] angulo ad [illegible] [illegible] dyameter [illegible] Item polus [illegible] in theologia [illegible] polus [illegible] [illegible] [illegible] et [illegible] polus [illegible] [illegible] Item polus [illegible] polus [illegible] [illegible] stella [illegible] [illegible] Item [illegible] polus [illegible] polus [illegible] [illegible] [illegible] Aliquis [illegible] polus [illegible] in mobilibus [illegible] axis in mobilibus [illegible] in mobili [illegible] [illegible] immobilibus

Spera autem dupliciter dividitur secundum substantiam et secundum accidens. Secundum substantiam eius dividitur in novem speras scilicet superiorem nonam que dicitur primus motus sive primum mobile. Et post eam dicitur in speram stellarum fixarum que firmamentum principaliter et in speras septem planetarum scilicet Saturni Martis Solis Veneris Mercurii et Lune quarum quedam sunt maiores quedam minores secundum quod plus accedunt vel recedunt firmamento unde illarum sperarum planetarum spera Saturni est maxima Lune vero minima secundum quod in presenti figuratione continetur.



[illegible]

[illegible] [17637] [illegible] [1812] [illegible] [1800] [illegible] [1800] [illegible] [17020] [illegible] [1800] [illegible] [1800] [illegible]

ut theologi [illegible] ad [illegible]
quod distantiam. Et [illegible]
magna est distantia a terris
usque ad octavam speram. Et est
ista proportio [illegible]
[illegible]
[illegible] [a 1 2 a 3]
Unde [illegible] quod omnes [illegible]
[illegible]
[illegible] Et [illegible]
[illegible] stelle [illegible]
[illegible] apparent [illegible]
[illegible] astronomus est [illegible]
[illegible] Et [illegible] ponunt
[illegible] nonam speram [illegible]
[illegible] est [illegible] ponunt ut [illegible]
[illegible] theologi [illegible]
[illegible] speras [illegible] empireum
in qua est deus [illegible] Et [illegible]
[illegible] est immobile. Aliqui ponunt
[illegible] in qua [illegible]
[illegible] Et [illegible]
[illegible] Et [illegible]
[illegible]
[illegible]
[illegible]
motus. [illegible]
[illegible] Et [illegible]
[illegible]
Et [illegible] in nonam
speram [illegible]
[illegible] [illegible]
[illegible] speras [illegible]
[illegible] theologos
[illegible] astronomos [illegible]
[illegible]
[illegible]
[illegible] Et [illegible]
[illegible] speras [illegible] ponunt
[illegible]
[illegible] motus [illegible]
[illegible] speras [illegible]
[illegible] est [illegible]
[illegible] motus [illegible]
[illegible] Et [illegible]
ponunt [illegible] nonam speram est

videtur in octava spera dupplex
motus scilicet motus [illegible] et motus
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] reducitur ad uniformem
et ad [illegible] ideo [illegible]
speram nonam in qua est motus
uniformis et [illegible] Et [illegible]
[illegible] est [illegible] motus octave
[illegible] Unde octava spera
[illegible] est absolute
in [illegible]
[illegible]
[illegible] in 36 [illegible] milibus
annorum complet [illegible]
[illegible]
[illegible] planete [illegible]
[illegible] debent [illegible]
[illegible] Et nona spera
[illegible]
[illegible]
[illegible]
[illegible] Et [illegible]
[illegible]
[illegible] est [illegible]
Et [illegible] est [illegible]
[illegible] stelle [illegible]
[illegible] Et [illegible] est [illegible]
[illegible] Et [illegible]
[illegible] planetas. Et nota
[illegible] nonam speram est
[illegible] Et [illegible]
[illegible] in medio [illegible]
[illegible]
et [illegible]
[illegible]
[illegible]
[illegible]
est [illegible]
[illegible] Et [illegible]
stelle [illegible]
[illegible]
[illegible] planeta [illegible]
[illegible]
Et [illegible]
[illegible]

pinctica

[illegible] quadrantum [illegible] et multiplicetur per 30 [illegible] quilibet signo 30 gradus [illegible] simul faciunt 360. Et ista iterum multiplicata [illegible] octava sphaera in [illegible] duo poli [illegible] et simul faciunt 36000 [illegible]

Secundum accidens sphaerae ad hoc dividitur sphaera in sphaeram rectam et obliquam. Illi enim dicuntur habere sphaeram rectam qui manent sub aequinoctiali circulo si quis ibi manere posset. Et dicitur recta quia neuter polorum magis ab altero elevatur super orizontem. Vel quia eorum orizon intersecat aequinoctialem et intersecatur ab eodem ad angulos rectos et sphaerales. Illi vero dicuntur habere sphaeram obliquam quicumque habitant citra aequinoctialem vel ultra si quis posset ibi manere. Illis vero semper alter polus elevatur et reliquus vero deprimitur [illegible] sub orizonte. Vel quia eorum orizon artificialis intersecat aequinoctialem et intersecatur ab eodem ad angulos impares et obliquos. [Hic potest dubitari [illegible]]

Et primo dubitatur [illegible] sphaera [illegible]. Et sphaera [illegible] ad hoc [illegible] in sphaeram rectam et sphaeram obliquam. Illi qui sphaeram rectam [illegible] habitant sub aequinoctiali si aliquis manere ibi posset [illegible]. Sed illi qui sphaeram obliquam habitant citra aequinoctialem et ultra [illegible]. Sed contra dicitur [illegible] quia sphaera est rotunda [illegible] sphaera recta et obliqua. [illegible] et dico quod sphaera in se est rotunda [illegible] habitantibus obliqua [illegible] dicitur obliqua. Et sphaera dicitur obliqua quia alter polorum elevatur alter vero deprimitur. Vel quia eorum orizon intersecat aequinoctialem [illegible] ad angulos impares et obliquos. Sed propter hoc isti dicuntur habere sphaeram rectam quia neuter polus ipsis magis elevatur altero vel quia eorum orizon intersecat aequinoctialem et intersecatur ab eodem ad angulos rectos et sphaerales. Exemplum ut si quis [illegible] sphaeram duo ligamina [illegible] polorum [illegible] orizon et aliud [illegible] aequinoctialis circulus. Iste vero orizon est idem circulus et nominatur finitor visus et est ille circulus quem aliquis respiciat [illegible] in campo [illegible] [illegible] terminat [illegible]. Vel [illegible] orizon est circulus dividens [illegible] hemisphaerium [illegible] ab [illegible]. Iste vero orizon est duplex scilicet rectus et artificialis. [illegible] dicitur qui est [illegible] habitantibus in aliqua regione [illegible] et terminat orizon [illegible] polo [illegible] polus magis [illegible] aequinoctiali

[illegible]

[illegible]

Sequitur questio

Queritur utrum [illegible] equinoctiali [illegible] [illegible] [illegible] [illegible] et arguitur [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

Nota ad [illegible]

[illegible] theologi [illegible]

Alia q[uesti]o est dubita[tur]

[illegible]

[illegible]

Universalis autem mundi machina in duo dividitur scilicet in elementarem et ethereas regiones

[illegible]

[illegible]

Questio [illegible]

[illegible]

Nota

differt tantum fuisse ab eterno
et omnes generales [illegible] non
habentes loquebantur nisi ad
hunc [illegible]. Ulterius possumus loqui
de eterno [illegible] in receptione
[illegible] phice et ad in intellec-
tus [illegible] possumus
[illegible] cum [illegible] ut cum
in receptione. Sed in talibus [illegible]
[illegible] ipso est aut apparet
[illegible]. Dicitur in [illegible] fuit
[illegible] esse [illegible]
[illegible] ex phice
[illegible] in receptione
[illegible] possumus loqui [illegible]
[illegible] et [illegible] et isto [illegible]
[illegible] in receptione [illegible]
[illegible]. Amplius cum creavit [illegible]
[illegible] et [illegible] est [illegible]
[illegible]. Talis [illegible]
[illegible] in libro [illegible]
[illegible] est eternum [illegible]
[illegible]. Solum [illegible]
et alpha [illegible] finis [illegible] in
Ad [illegible] argumentum [illegible]
[illegible]. Dicitur quod actio divina
[illegible] essentiam
[illegible] continuando
[illegible] et [illegible]
est [illegible]. Ulterius [illegible]
[illegible] in rebus [illegible]
ut [illegible] in [illegible] et
[illegible] ad [illegible] in intellec-
[illegible] in intellectum et
actio [illegible] in [illegible] et tal
actio [illegible] fuit ab eterno [illegible]
[illegible] esse [illegible] quod [illegible]
[illegible]. Alia [illegible] quod
argumentum [illegible] differt
esse a posse. [illegible] esse
quia ad [illegible]
[illegible] esse et [illegible]
esse [illegible]. Sed comparando
esse et posse quo ad operationem [illegible]
[illegible] aliquo

comparando

[illegible] in quo [illegible] actu esse
[illegible]
[illegible] esse [illegible]
[illegible] in [illegible]
[illegible] aliquid [illegible]
[illegible] incipiat [illegible]
[illegible] aliquid ut [illegible]
est [illegible] modus est [illegible]
in [illegible]. Sed [illegible]
[illegible] et est [illegible] et est
[illegible] in [illegible] duorum [illegible]
[illegible] quod [illegible] esse
in [illegible] quod est [illegible]
[illegible] esse in [illegible]
est incipiens et tale [illegible] est
in [illegible] in [illegible]
[illegible]. Ulterius
[illegible]. Sed [illegible] esset
esset factus [illegible]
[illegible] et [illegible]
[illegible]. Est
[illegible] quo
[illegible]
[illegible]. Sed [illegible]
[illegible] est [illegible]
[illegible]. [illegible]
est [illegible] et est [illegible]
[illegible] et est [illegible]
[illegible] est [illegible] media [illegible]
[illegible] est [illegible]
[illegible]
et talis [illegible]
[illegible]
[illegible]

Elementatur quid alterum
tam prima in quatuor
dividitur. Est enim [illegible]

terminus extra in medio [illegible] sicut terra circa aqua terra aquam aer terram ignis [illegible] in [illegible] pura pu- rus et non [illegible] bene [illegible] attingens

Sed cum ea dispositio [illegible] et [illegible] [illegible]

[illegible]

Ignis: calidus, siccus
Aer: calidus, humidus
Aqua: frigida, humida
Terra: sicca, frigida

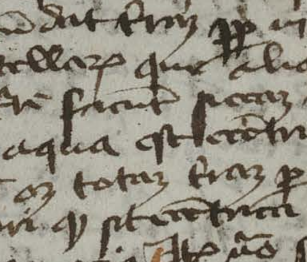
[illegible]

Et hec quatuor elementa dicuntur que vicissim esse incipit alterantur et corrumpuntur et regenerantur ut ait aristoteles metheororum

[illegible]

[illegible]

Sunt autem dicta corpora simplicia que impressa diuersarum formarum inuicem diuidi possunt et quorum commixtione ad inuicem diuerse generantur species sunt. Quorum quatuor [illegible] terra orbicularis rotunda undique uisa in quantum secundum terre humori aque resistit ad uitam animalium prestandam. Vnde est terra mobilis et [illegible] que ut centrum mundi ponderosa [illegible] te sui [illegible] est motus [illegible] undique [illegible] fugiens retinendi [illegible] medium possidet. [illegible]



[illegible]

[illegible]


tra
aqua

in mutabili essencia in
mutantis existens moto
[illegible] cum [illegible] sine orbi-
culari [illegible] cedit et hoc
[illegible] quinta essencia [illegible]
[illegible] Quinta essencia est
quod quod est a globo lunari
usque ad [illegible]
[illegible]

quod ad formam [illegible]
[illegible] in corpore [illegible]
non [illegible] ipsa est in
variabilis [illegible]
peregrinas impressiones [illegible]
[illegible]

[illegible]

Cumque nouem sunt spere scilicet
in primo contractum est quod
lune mercurii veneris solis
martis jovis saturni stellarum
fixarum et celi cristallini et primi
mobilis ... superior ... inferiorum
sperarum spera ... comm...

[illegible]

vel calido et sicco sicut coleri-
ci calide et sicce appetunt
sed ... medicinam sicut
Item frigido et humido ut flegma-
tici ... frigide ... appetunt
sed ... humide medicinam sicut
Item frigido et sicco ut melan-
[illegible]

[illegible]

Quare quedam stelle sunt
visibiles quedam est ... ulta
super diversos ... circula-
res per polum articum et po-
lum antarticum ...
in accidentibus ... ...
in circuitu ... ...
... ...
quod dividit. Est autem
... ...

motus publicum hunc
[illegible] super axes suos
distantes a primis 23 gradibus
17 minutis. Sed primus autem alia
de causa impetu rapit infra
diem et noctem circa terram
totam semel illis tamen contranit-
entibus ut octava sphera
centum annis uno gradu. Iste
secundus motus dividit per medi-
um zodiacus sub quo quilibet
septem planetarum spheram
habet propriam in qua defertur motu
proprio contra motum celi et in diversis
spaciis temporis ipsum metitur
ut Saturnus in 30 annis, Jupiter
in duodecim, Mars in duobus,
Sol in 365 diebus et sex
horis, Venus et Mercurius
similiter fere cum sole. Luna vero
in 27 diebus et octo horis.
[illegible] est 3a pars pulcra in qua auctor
declarat [illegible] unde et
[illegible] in duas partes in prima ponit
[illegible] quo ad motum in 2a
[illegible] quo ad figuram sphere etc.
et [illegible] .i. est ad

alios sic [illegible] prima parte
ad [illegible] in duas partes
Prima fecit quod dictum est [illegible]
declarat hoc [illegible] quod antequam
celum motu [illegible] secundo [illegible]
[illegible] Contra
[illegible] movetur [illegible]
nova [illegible] motus [illegible]
[illegible]
motu diurno [illegible] diem et
noctem et talis motus fit
[illegible] et [illegible] super
caput arietis et libre [illegible]
[illegible] Et
isto motu [illegible]
[illegible] Et [illegible]
motus latitudinis [illegible]
quilibet planeta in suo epiciclo
[illegible] Et [illegible]
nova [illegible] rapit [illegible]
omnes alias spheras in [illegible]
[illegible] motus [illegible]
esset violentus [illegible]
[illegible] violentus
[illegible] Sed alia [illegible]
[illegible] motu [illegible] et
[illegible] motui [illegible]
mobilis [illegible]
agit [illegible]
[illegible] Et [illegible]
[illegible] motu [illegible]
dividit [illegible] Et [illegible]
est [illegible] quam [illegible]
illud motu [illegible] dividit
[illegible] dividit [illegible]
[illegible] ad
[illegible] Et [illegible]
[illegible] longitudinis celi
[illegible] apte
[illegible] accidentaliter
[illegible] latitudinis
[illegible]
[illegible] in textu
Et [illegible] mediate
[illegible]

primus motor non movet secundum sensum
primo mobili extra centrum sed angeli
eius assistunt. Sed octava spera
cum septem speris planetarum
super axes spere distinctos ab invicem
23 gradibus movetur ab occidente
in orientem in occidentem [illegible]
et talis motus est obliquus et
est contra primo mobili oppositus.
Item ex motu octave spere in
inferiorem est dubium quod probatur quia
nona spera in spetu fortem [illegible]
pro rapit secum quod movetur [illegible]
motu nona spere ut movetur per
diurnum motum [illegible] [illegible]
talis planete. Item [illegible] dicitur
circulus [illegible] corpus [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
et est dictus circulus [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible]. Et non [illegible] [illegible]
[illegible] [illegible]. Sed alii dicunt
[illegible] [illegible] et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] in aliquos [illegible] [illegible]
Item [illegible] octava spera [illegible]
[illegible] primo mobili [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] spera septem planetarum
[illegible] [illegible] [illegible] [illegible] distinct
[illegible] [illegible] [illegible] [illegible] [illegible]
distinctionem celestium.
Item [illegible] ut astronomi dicunt [illegible]
[illegible] octave spere distinctis [illegible]
primi mobilis per 23 gradus et [illegible]
super illos [illegible] [illegible] [illegible]
spere planetarum [illegible] [illegible]
[illegible] zodiaci. Item [illegible] [illegible]
octave spere [illegible] planetarum
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] nona spera [illegible]
[illegible] [illegible] et talis motus
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
et [illegible] primi mobilis [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] spere [illegible] [illegible] [illegible]
[illegible] [illegible] 36 [illegible]
[illegible] aliorum octava spera
[illegible] [illegible] [illegible] [illegible]
mobile [illegible] planetarum [illegible]
[illegible] et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
est [illegible] et [illegible] [illegible] aliqui
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] magnus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] 36 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] 36 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] 36 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
planetarum [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 8 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
in tabulis alphonsi et [illegible]
[illegible] aliorum [illegible] [illegible]
[illegible] [illegible] [illegible] 49 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 49 [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] 3 [illegible] [illegible] [illegible] 8
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] zodiaci [illegible] 360

[illegible]

Questio

[illegible]

motori est dissimilis [illegible] simile [illegible] non est [illegible] [illegible] in [illegible] [illegible] celi [illegible] mobili [illegible] [illegible] ad motum [illegible] in celo non est [illegible] [illegible] [illegible] celum [illegible] [illegible] [illegible] celum est locus dei [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in mobilibus [illegible] aliud argumentum [illegible] [illegible] appetit assimilari [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] est actus in [illegible] [illegible] [illegible] [illegible] est actus in [illegible] est actus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Quod autem celum volvatur ab oriente in occidentem signum est quia stelle que oriuntur in oriente elevantur paulatim et successive quousque veniunt ad medium celi et sunt semper in eadem propinquitate et remotione ~~ad in~~ ab invicem Et ita

semper habentes tendunt in oc-
casum continue et uniformiter

Est enim et aliud signum quia stelle
que sunt iuxta polum articum
que numquam nobis occidunt mo-
uentur continue et uniformiter
circa polum describendo circulos
suos et sunt semper in equali
distancia ab inuicem et propin-
quitate unde possumus duos motus
continuos stellarum tam te deucimus(?)
ad occasum quia non patet quod firmamen-
tum mouetur ab oriente in occi-
dentem || Sed magister [illegible] supposuit [illegible] quod celum mo-
uetur et [illegible] [illegible] per duo [illegible] ut patet
[illegible] magister probat per duas [illegible]
[illegible] quia non [illegible] plures [illegible]
argumenta [illegible] in [illegible] [illegible]
[illegible] ut patet [illegible] [illegible]
[illegible] qui dubitat an [illegible] sit alia
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
Consequenter [illegible] [illegible] [illegible] non [illegible]
[illegible] quod [illegible] sunt [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] non indiget argumento [illegible] plurimis
[illegible] [illegible] [illegible] patet [illegible] [illegible]
[illegible] [illegible] qui [illegible] [illegible]
[illegible] [illegible] in [illegible] sunt [illegible]
Sed [illegible] [illegible] in [illegible] probat [illegible]
[illegible] [illegible] ortus stellarum [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] stelle [illegible]
[illegible] mouentur in [illegible] et [illegible]
[illegible] in [illegible] [illegible] apparencium [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] magister dicit et [illegible] [illegible]
[illegible] probat [illegible] [illegible]
[illegible] dicit [illegible] [illegible] [illegible] quod stelle
[illegible] mouentur [illegible] non [illegible]
[illegible] in [illegible] [illegible] [illegible]
[illegible] apparent [illegible] stelle
[illegible] [illegible] [illegible] [illegible] [illegible]
ut patet [illegible] [illegible] stelle [illegible]
[illegible] in [illegible] [illegible]
[illegible] [illegible] stelle [illegible]
[illegible] in [illegible] [illegible] motus
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] non [illegible] [illegible] qua
stella [illegible] [illegible] [illegible]
[illegible] [illegible] stelle [illegible] [illegible]
[illegible] in [illegible] [illegible]
[illegible] [illegible] stella [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] stelle que sunt
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] stellis [illegible] polus
non [illegible] [illegible] [illegible]
stelle [illegible] [illegible] [illegible]
[illegible] [illegible] stelle [illegible] et
illa duo [illegible] [illegible] [illegible] ut
[illegible] [illegible] ad [illegible]
[illegible] [illegible] [illegible] est [illegible]
[illegible] [illegible] [illegible]
in tota [illegible] [illegible] magister probat
quod celum mouetur [illegible] non [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] quod [illegible] mouentur [illegible]
[illegible] [illegible] quod [illegible] [illegible] mouentur
in [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] probat quod celum
mouetur et non [illegible] [illegible] non
[illegible] [illegible] [illegible] [illegible] mouentur
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ille motus non [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ut mouentur
[illegible] ad [illegible] [illegible] [illegible]

[illegible] tunc ille motus esset et
violentus [illegible] [illegible] est [illegible] -
[illegible] [illegible] [illegible] [illegible] arbor

Quod autem celum est rotu-
dum triplex est ratio similitudo
commoditas et necessitas. Simili-
tudo enim est quia iste mundus per-
petuus factus est ad similitudinem
mundi architipi in quo non est
finis vel principium. Unde ad huius simili-
tudinem mundus sensibilis habet formam
rotunditatis in quo non est assignare
principium vel finem. Commoditas est
~~[illegible]~~ quia corporum ysoperime-
trorum spera maxima est quia est
forme rotunde capacissima est
[illegible] ergo maxime et rotundum sit
capacissimum. Unde cum mundus omnia gene-
rata contineat talis forma fuit illi
utilis et commoda. Necessitas
est quia si mundus esset alterius forme
quam rotunde puta ~~lateralis vel~~
~~quadri~~ trilateralis vel quadrilateralis
sequeretur quod locus aliquis esset preter
corpus et aliquod preter locum quorum utrumque
absurdum est sicut patet in angulis
[illegible] et convolutionis vel
[illegible] [illegible] [illegible] [illegible] figura
[illegible] in [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ad [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

~~[illegible]~~
~~[illegible]~~
quod potest [illegible] [illegible] et [illegible]
[illegible] prima [illegible] est [illegible]
et placeat quod mundus est sensibilis
est factus ad similitudinem mundi
architipi sed in architipo non est
principium vel finis [illegible] in mundo sensibi-
li principium vel finis [illegible] [illegible]
[illegible] [illegible] [illegible] est talis
mundus architipus est deus [illegible]
qui non habet principium vel finem [illegible]
[illegible] Augustini. [illegible] est in
deo est deus [illegible] [illegible]. Pro-
[illegible] [illegible] [illegible] mundus [illegible]
est deus [illegible] architipus. Alius
sensibilis [illegible] architipus
est exemplar in mente divina
[illegible] [illegible] mundus sensibilis
est [illegible] et [illegible] [illegible]
[illegible] principium et tipus figura [illegible]
principium [illegible] [illegible] Boecius in
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] gubernant mundus [illegible]
[illegible] [illegible] pulcherius
[illegible] [illegible] sensibilis est [illegible]
[illegible] [illegible] mundus [illegible] et [illegible]
[illegible] [illegible] [illegible] mundus
[illegible] [illegible] [illegible] [illegible]
sensibilis [illegible] [illegible] [illegible] aut [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
aliquis [illegible] mundus non habet principium
[illegible] finem [illegible] esset in [illegible]
[illegible] [illegible] mundus sensibilis
[illegible] [illegible] [illegible] [illegible] ad [illegible]
[illegible] [illegible] est [illegible] [illegible]
in [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ad [illegible] -
[illegible] [illegible] [illegible] principium non
finem [illegible] [illegible] principium
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in celo [illegible]

[illegible]

quarto [illegible] sic declaratur [illegible] sit celum [illegible]

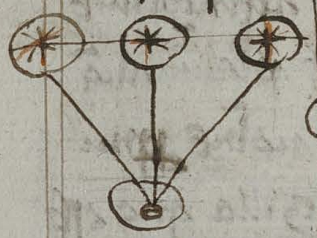


[illegible]

Et sicut dicit alfraganus si celum esset planum aliqua pars celi esset nobis propinquior alia scilicet illa que esset supra caput nostrum et stella ibi existens esset nobis propinquior quam in ortu vel occasu existens sed que nobis propinquiora sunt videntur maiora ergo sol in medio celi existens deberet videri maior quam existens in ortu vel occasu cuius contrarium videmus contingere quia maior apparet sol vel alia stella existens in oriente vel occidente quam in medio celi vel

Ista est particula 2a in qua magister declarat auctoritatem Alfragani de planicie celi et [illegible] quod patet quod auctor in 2o consequenter [illegible] sui dicti [illegible] juxta [illegible].

Deinde magister in ista parte probat celum non esse figure plane et hoc facit per duo argumenta. Primum si celum esset planum tunc stelle [illegible] capitis nostri esset [illegible] propinquior quam in alia parte celi [illegible] stella [illegible] propinquiores [illegible] plana [illegible] propinquior [illegible] est [illegible] in ista figura ubi sunt tres lineae et media est brevior ut patet ad sensum.



Secundum argumentum est [illegible] si stella in [illegible] esset [illegible] que [illegible] debet apparere maior quam propinquior [illegible] videntur [illegible] apparent [illegible] patet [illegible] maiores apparent [illegible] ut patet [illegible].

Sed cum veritas ista non sit [illegible] apparencie [illegible] est ut in tempore hyemali vel pluviali [illegible] vapores [illegible] sunt inter aspectum nostrum et solem vel alias stellas vel [illegible] illi vapores sunt corpora dyaphana disgregant radios nostros visuales quia non apprehendunt rem in sua quantitate sicut patet de denario [illegible] in profundo aque [illegible] quam [illegible] radiorum appareant [illegible] quod [illegible] sit [illegible].

Deinde ista particula magister excludit errorem sui dicti scilicet quare sol apparet maior in oriente quam in medio celi cum tamen per equalem distanciam debet apparere equaliter magnus. Notandum magister primo dicit [illegible] veritas ista non sit et est tamen [illegible] quamvis sol apparet maior in oriente non tamen [illegible] veritas [illegible] in tractatu metheororum dicit [illegible] vel [illegible] apparent maiores quam in medio celi existencia ideo quod [illegible] posicio vaporum apparenciam facit maiorem.

[illegible] medium [illegible] et sic piscis videt lapidem in aqua et [illegible] in aere. Alio modo [illegible] medium [illegible] et sic [illegible] in aere videtur [illegible] in aqua videt [illegible] medium [illegible] quia [illegible] aqua et [illegible] in aqua [illegible] et [illegible] aere [illegible] videndo lunam in oriente [illegible] vapores [illegible] in [illegible] medio fit fractura radiorum ad [illegible] ut patet de baculo qui [illegible] in aqua et in alia parte super aquas [illegible] aque et aeris apparet esse fractus. Ultimo

Notandum vapor [illegible] dicitur corpus dyaphanum id est transparens et dicitur [illegible] esse [illegible] et [illegible] apparens quod transparens [illegible] corpus dyaphanum id est corpus transparens [illegible] et [illegible] aer [illegible] transparens [illegible].

Notandum [illegible] videndi [illegible] visus [illegible] est [illegible] ab oculo [illegible]

[illegible]

Quod autem terra sit rotunda

patet. Signa et stelle non equaliter oriuntur et occidunt omnibus habitantibus undique existentibus quia ubi patet per ea que fiunt in sublimi una enim et eadem eclipsis lune que nobis apparet in prima hora noctis apparet orientalibus circa horam tertiam unde constat quod illis prius fuit nox et prius occidit sol illis quam nobis cuius causa est tumor terre.

[illegible]

ditatis celi. Unde dicitur per [illegible]
radiositatem et quando lune rotun-
dum igitur corpora igitur habebunt
rotunditatem sed ignis in igne [illegible] aer
igitur aer est rotundus et aqua
in aere et terra in aqua igitur et
terra est rotunda. ¶ Item alias si
non esset speciei elementi superioris
et in [illegible] [illegible] [illegible]
terra [illegible] [illegible] [illegible]
[illegible]. ¶ Alio modo probatur rotunditas terre
sic per hoc quod [illegible] tendunt
ad centrum ergo terra tendit [illegible] rotun-
dam [illegible] habeant [illegible]
[illegible] et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] sibi [illegible]
[illegible] [illegible]. ¶ Et [illegible] terra
apparet [illegible] [illegible] [illegible]
et [illegible] [illegible] sunt montes et val-
les [illegible] [illegible] [illegible] [illegible]
[illegible]. ¶ [illegible] rotunditas terre
patet [illegible] terre et [illegible] signorum
in zodiaco et stellarum que [illegible]
[illegible] [illegible] in variis regionibus ha-
[illegible] apparent et [illegible] [illegible]
[illegible] de una eclipsi [illegible] que eodem tempo-
re apparent et fiunt una eadem
[illegible] apparent terra [illegible]
[illegible] apparent [illegible]
occidentalibus [illegible] [illegible] [illegible] et
[illegible] [illegible] [illegible] tumor et
rotunditas terre. ¶ [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
eadem eclipsis lune [illegible] apparet aliis
in vespere apparet in meridie [illegible]
scilicet in oriente et [illegible] apparet [illegible]
[illegible] [illegible] occidente et solis eclip-
sis que contingit in media nocte ori-
entalibus apparet [illegible] in [illegible]
aliis et [illegible] apparet [illegible] [illegible]

[illegible] solis eclipsis que [illegible] in me-
dia nocte apparet aliis est in vespere
occidentalibus et in mane orientalibus.
¶ Contrarium contingit [illegible] media nocte orienta-
libus terre est meridies occidentalibus
et e converso. Causa autem est tumositas
terre que est ab oriente in occidentem.
¶ Item rotunditas terre probatur per [illegible] terra
obumbrationem lune tempore eclipsis quia
umbra terre rotunda [illegible] lunam
obumbrat modo si luna est rotun-
da tunc illud a quo procedit umbra
umbra [illegible] est rotunda et illud est terra
igitur terra est rotunda. ¶ Sequitur [illegible]

¶ Quod autem terra habeat tu-
morem a septentrione versus
austrum et e converso sic patet. Existentibus
versus septentrionem quedam stel-
le sunt semper apparentes
scilicet que accedunt ad polum
articum. Alie sunt semper
occultationis scilicet que sunt prope
polo antartico. Si igitur
aliquis procederet a septentrione
versus austrum in tantum posset
procedere quod stelle que prius sem-
per erant apparentes tenderent ad occasum et quanto
magis procederet ad austrum tanto

[illegible] tenderent ad occasum
et ille homo videret stellas que
prius erant sibi sempiterne occul-
tacionis et eius contingeret aliquem
procedentem ab austro versus septen-
trionem tamen cum ex vel cum quare
tumor terre [illegible] (Item contra eos [illegible]) sicut rotunditatem
terre apprehensione in austro hoc est
quod si aliquis procedit ad septen-
trionem in austro tunc ille stelle
que tamen sibi fuerunt sempiterne ap-
paricionis tenderent sibi ad occasum
et fuerunt sempiterne occultacionis
[illegible] eius contingeret procedenti ab
austro versus septentrionem [illegible] hoc
[illegible] alfraganus rotunditatis terre [illegible]
[illegible] [illegible] [illegible] et mundo
[illegible] ut patet [illegible] secundum [illegible]
[illegible] [illegible] [illegible] rotunditatem
[illegible] terra habebunt rotunditatem probatur quia
terra est [illegible] [illegible] secundum [illegible] [illegible]
[illegible] [illegible] [illegible] rotunditatem
habebunt quia sunt planus. Item [illegible]
[illegible] stella canopus que appa-
ret in ethiopia [illegible] [illegible] hic
si terra esset plana absciente in
[illegible] [illegible] oriuntur stelle
orientalibus quam occidentalibus quod est falsum.
~~Item si terra esset plana apprehensione~~
~~in austro [illegible] stelle que essent al-~~
~~tum sempiterne apparicionis sempiterne~~
~~apparicionis ei quocumque procedit quod est falsum~~
~~quia apparet plana [illegible] [illegible]~~
~~[illegible] et quod visui hominum [illegible]~~

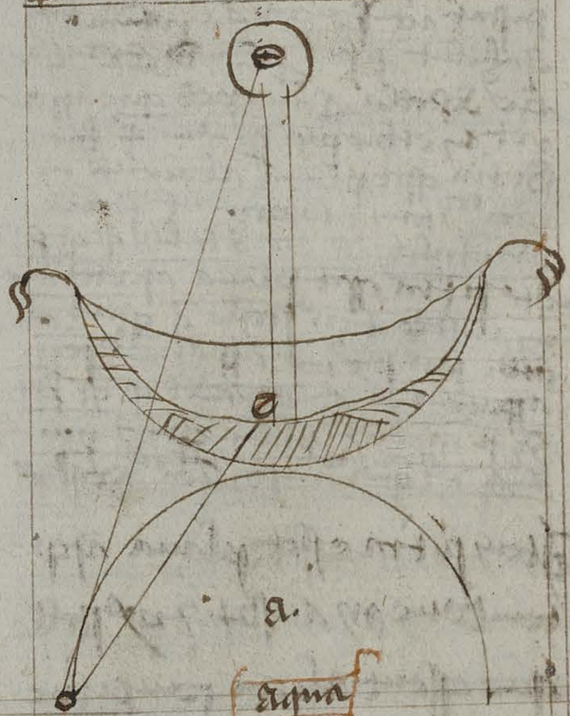
Item si terra esset plana apprehensione
in austro tunc ille stelle
que essent alicui sempiterne

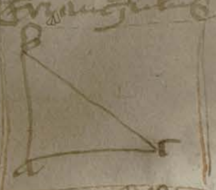
apparicionis semper apparerent
ei quocumque procederet quod est falsum
quia apparet plana [illegible]
[illegible] [illegible] visui hominum apparet.
Item [illegible] [illegible] [illegible] rotunditatem
terre per [illegible] [illegible] ad [illegible] polo
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
rotunditatem terre [illegible] [illegible]
[illegible] [illegible] [illegible] rotunditatem [illegible] [illegible]
ad [illegible] polo [illegible] arguit [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] falsum et [illegible] [illegible]
[illegible] [illegible] [illegible] est rotunda quod
plana [illegible] [illegible]. Item [illegible]
arguit [illegible] [illegible] apparentia terre est
plana [illegible] [illegible] [illegible] [illegible]
[illegible] videntur in plano [illegible]
[illegible] [illegible] [illegible] videtur [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
Item arguitur per [illegible] [illegible]
[illegible] plano [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] videtur [illegible] [illegible] [illegible] pla-
na [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ad [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] est [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] in [illegible] [illegible] [illegible]
[illegible] [illegible] planum [illegible]
[illegible] [illegible] rotundum quia sunt
planum. Item alia [illegible] arguit rotun-
ditatem [illegible] in [illegible] [illegible]
[illegible] [illegible] que arguit rotunditatem
apprehensione in austro [illegible] [illegible]
[illegible] terre fuerunt [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] est [illegible] [illegible] [illegible]
[illegible] terra est [illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible]. Item [illegible]
apparet [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] planum [illegible]
[illegible] [illegible] [illegible] rotunditatem [illegible]

in lateribus orizontis. Alia fuit opi-
nio platonicorum qui [illegible]
[illegible] figuram [illegible]
[illegible]

Quod autem aqua habe-
at tumorem et accedat ad
rotunditatem sic patet. Ponatur
signum in littore maris et exeat
navis a portu et in tantum elongetur
quod oculus existentis iuxta
pedem mali non possit videre
signum. Stante vero navi oculus
eiusdem existentis in summitate
mali bene videbit illud signum.
Sed oculus existentis iuxta
pedem mali melius deberet
videre signum quam ille qui
est in summitate sicut patet per
lineas ductas ab utroque ad
signum. Et nulla alia huius
rei causa est quam tumor
aque. Excludantur enim omnia
alia impedimenta sicut nebule
et vapores ascendentes.

In ista parte auctor ostendit formam
aque [illegible]
primo quod dictum est [illegible]
ad [illegible] aque [illegible]
[illegible] aqua est
homogenea [illegible]
[illegible] in medio navis
[illegible] ad modum statue et [illegible]
mali [illegible]
[illegible] tumorem aque [illegible]
oculus existens in pede mali [illegible]
[illegible] signum in littore [illegible]
[illegible] oculus in summitate mali [illegible]
[illegible] signum [illegible] in littore [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] linea longior [illegible]
[illegible] mali ad signum ducta [illegible]

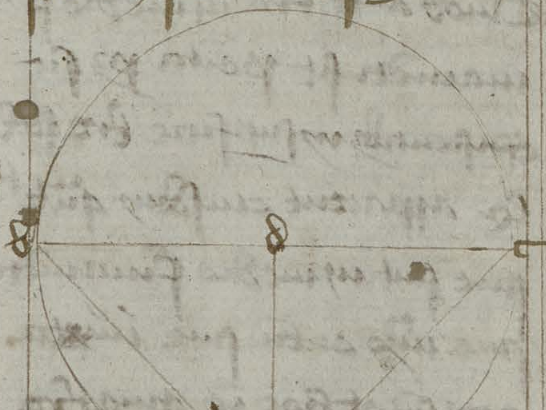




Quod 18 propositione [illegible] Et probatur a b c trianguli linea [illegible] ducta ab a puncto medio ad c punctum [illegible] est ... linea ducta a b puncto medio ad c ... Et ideo ... quod est elevatius ... magnus passus ... in puncto medio ... [illegible] ... in suis centro ... [illegible] Et ideo in predictis ... partibus aque ... Et ideo rotunditas aque perpetuatur ... quia partes aque flexibiles et ... partes quae ad partes ... Et modo ... in ... rotunditas ... aque fluxus ... in superiori ... Et ... est ... Et ... ideo aqua ... est in toto rotunda ... Et ... in aqua plus ... aqua ... rotunditatem

Item cum aqua sit corpus homogeneum totum cuius partibus erit eiusdem rationis et ideo partes aque sicut in guttis et in roribus herbarum accidit rotunditatem appetunt formam et totum cuius sunt partes [illegible] ... aque ... rotunditatem ... nota

... sit ... homogeneum et quod ... partes ... et aqua ... aque est aqua et ... rotunditatem ... per totam aquam apparet rotunditas. Et ... ab homine ... Et ... ideo ... Et ... Et ... aque ... Et ... Et ... aqua ... aquas ... Et ... supposito ... linea ... plus ... Et ... rotunditas ...



a. b. c. d. Et ... centrum ... a et ... aque ... b. c. d. Et ... medio ... linea ... supposita ... b. ad d ... c ad a ... a. d. c. ...

Et quia angulus a d b est rectus eo quod d a sit linea perpendicularis super b c puncto igitur in triangulo d b c angulus est magnus [illegible] in triangulo d b c maior angulus d est magnus [illegible] latus d c in triangulo a d c maius latus d b in triangulo a d b est maximum quod maiori angulo maius latus opponitur. Sed in orthogonio rectus maximus [illegible] linea a d est brevior utroque illorum laterum et punctus circumferentie ... [illegible] puncto c ut b [illegible] puncto d est in terra [illegible] superficiem [illegible] quam centrum [illegible] aque [illegible] in puncto b c fluant ad aequalem distantiam cum puncto d et tam diu in [illegible] [illegible] descendunt quousque [illegible] ... circa [illegible] [illegible] [illegible] [illegible] quod [illegible] habebit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ... medio est puncti [illegible] ut [illegible]

Quod autem terra in medio firmamenti sit posita patet sic existentibus in superficie terre stelle apparent eiusdem quantitatis sive sint in medio firmamenti sive iuxta ortum sive iuxta occasum et hoc ideo quia terra equaliter distat ab eis. Si enim terra magis accederet in una parte quam in alia ad firmamentum aliquis existens in illa parte superficiei terre que magis accedit ad firmamentum non videret celi medietatem sed illud est contra Ptholomeum et omnes philosophos dicentes ubicumque homo existens sex signa ei oriuntur et sex occidunt semper medietas celi semper apparet et alia medietas illius semper occultatur.

Cum ista particula [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] terra sit [illegible] punctus in firmamento [illegible] illud idem est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] terra magis accederet [illegible] [illegible] quod non [illegible] [illegible] [illegible] stelle apparent [illegible] est in medio celi [illegible] [illegible] terra est in medio celi [illegible] [illegible] sunt [illegible] [illegible] [illegible] illas stellas [illegible] [illegible] [illegible] apparentie [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad medium celi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] angulus videtur esse magna ut patet in figura.



Tunc ista stella sunt [illegible] [illegible] [illegible] paribus [illegible] [illegible] [illegible] [illegible] sed cum [illegible] non esset [illegible] stelle non appa-

[illegible]

Et terra est quasi centrum celi [illegible]

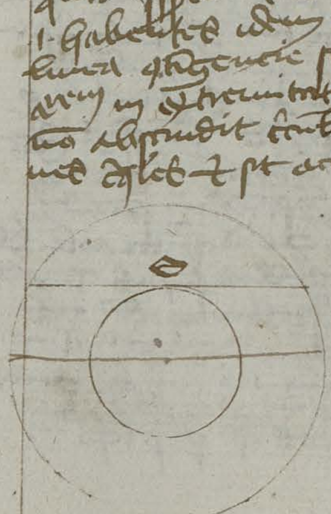


[illegible]

Illud idem est probatur quia terra est tamquam centrum et punctus respectu firmamenti. Item si terra haberet aliquam notabilem quantitatem respectu firmamenti non contingeret celi medietatem videri. Item intelligatur superficies plana superficiem terre dividens eam in duo equalia

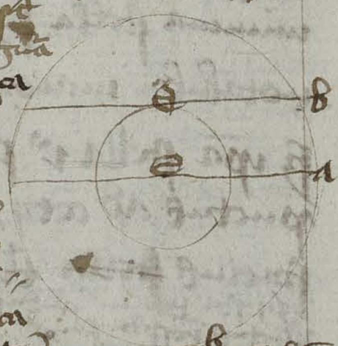
et per consequens firmamenti. Oculus igitur existens in centro terre videret medietatem firmamenti. Ibi oculus existens in superficie terre videt eandem medietatem. Ex hiis colligitur quod insensibilis est superficies terre sive quantitas que est a superficie ad centrum et per consequens quantitas totius terre est insensibilis respectu firmamenti. Item dicit Alfraganus minima stella fixarum visu notabilem maior est tota terra. Sed ipsa stella respectu firmamenti est quasi punctus ad centrum. Multo igitur fortius ~~stella~~ terra cum sit [illegible]

[illegible]



[illegible]

[illegible]



[illegible]

Quod autem terra in medio omnium immobiliter teneatur, eo quod sit summe gravis, sic persuaderi videtur. Cum in mobilitate omne grave tendit ad centrum. Centrum autem quoddam punctum est in medio firmamenti. Terra igitur, eo quod sit summe gravis, ad punctum illud naturaliter tendit. Item quidquid [illegible]

[illegible]

Totius autem terre ambitus auctoritate ambrosii theodosii et macrobii et aliorum philosophorum 272000 stadiorum comprehendere continere videtur unicuique 360 graduum per zodiacum 700 computando stadia. [illegible]

[illegible]

Ysidorus miliarium

unus gradus deinde milliar[ia] per 1000
quibus cum gradum in celo correspondent
500 stadia in terra et proveniunt
unius stadiorum ambitus terre 252000
ut patet textu. Est autem stadium quo
miliaria gallica et parva quibus
ambitus terre est est modo dicto
unius stadiorum per octo et unus pro-
veniens fiet 31700 .i. triginta
unum milia septingenta
Sed [illegible] quod habeat miliaria
magna iste est modo dicto
unius [illegible] miliarium pro duo
quod duo parva miliaria faciunt
unum magnum et proveniunt unius
iste 17870 .i. decem milia
[illegible] milia et septingenta et quinqua-
ginta miliaria. Est autem terra
habitabilis in longitudine
continet [illegible] milia nongenta
et triginta novem passus [illegible]
3939. Et ad inveniendum hoc
modo est iste [illegible] prius
[illegible] pars terre est habitabilis dicit
[illegible] iste miliaria magna
17870 per 4or et proveniunt
iste unius 393 Est autem
[illegible] ponit [illegible]
terre quinquaginta duo [illegible]
milia et plus ut patet [illegible]
[illegible] stadiorum continet [illegible]
Est [illegible] stadium [illegible]
est in [illegible] quod est diuersis
quantitatibus [illegible] surgit [illegible]
[illegible] Sed [illegible] quod [illegible] quod sunt
[illegible] [illegible] [illegible]
[illegible] graduum [illegible] quod in celo sunt 360
graduum et unicuique illorum graduum
correspondent 500 stadia in terra
[illegible] proveniunt [illegible]
[illegible] terre per [illegible]
[illegible] graduum [illegible] stadia [illegible]
[illegible] Est autem stadium
est spatium continens 125 passus
Sed passus est spatium [illegible]
pedes. Pes est spatium continens qua-
tuor palmos. Sed palmus continet

quatuor digitos [illegible] continet
quatuor grana [illegible]
in palma digitus [illegible]
palmus [illegible] pedes [illegible]
[illegible] passus [illegible]
stadium dicitur. Sed per unius [illegible]
[illegible] habent stadia [illegible]
[illegible] leucam et magis [illegible]
[illegible] digiti [illegible] 4or [illegible]
stadium est [illegible] [illegible]
stadia [illegible] [illegible] et [illegible]
[illegible] Sequitur [illegible]

Sumpto enim astrolabio sub stel-
late noctis claritate per utrumque
medietatis foramine polo arti-
co prospecto notetur gradum
in quo steterit medietatis
tunc deinde procedit cominus
recte directe contra septentrionem
ambulando donec in altera
noctis claritate viso ut prius
polo steterit per alium uno
gradum medietatis prefatur me-
surentur spatium itineris peracti
et invenietur longitudo 500
stadiorum. Deinde dicit unicuique
360 graduum tot stadia tri-
buit inventa erit ambitus
Hec magis debet quod dixit [illegible]
[illegible] [illegible] quod [illegible]
[illegible] [illegible] in [illegible]
[illegible] [illegible] ad [illegible] graduum [illegible]

[illegible] ... p[ro]portionem ad 100 ... [illegible]
... et ... [illegible]
... 100 sta-
dia ... [illegible] ... notat ... [illegible]
... [illegible] ... modo in medio
... [illegible] ... et ... [illegible]
... [illegible] ... mathemati-
[illegible] ... sunt duo
... [illegible] ... circulus tot
... [illegible] ... circuli ... [illegible]
... [illegible] ... per ... [illegible]
... [illegible] ... circulus ... et circulus
... [illegible] ... tot partes ... [illegible]
... circulus ... tot partes habebit
circulus terre ... [illegible] ... sunt ... [illegible]
partes ... [illegible] ... in celo de
360 partibus ... [illegible]
aliqua pars ... ordinata
... [illegible] ... 100 sta-
dia ... [illegible] ... re-
gulas ... [illegible] ... circulus
... [illegible] ... diametri et
septimam eius partem. ... [illegible]
regula ... [illegible] ... circuli ...
... [illegible] ... vicesi-
mam 2am partem ... [illegible] ... et ...
3a pars ... [illegible] ... que remanet
est dyameter ... [illegible] ... circulus ...
... 22 pedes ... [illegible]
... 7 pedes quod est vicesima
2a pars ... [illegible]
... partem ... [illegible] ... vero et
... [illegible] ... dyameter est ... [illegible]
... pedum. Et ... [illegible]
... [illegible] ... totus

... [illegible] ... terre et

dyametri regulam terre dyametrum
invenire potest sic: aufer vice-
simam 2am partem circumferentie terre
et remanentis tertia pars, quod
est 80181 stadiorum et fere
dimidium stadium et tertia
pars unius stadii, erit totus
terre orbis dyameter sive
spissitudo. Hec ... [illegible]
... dyameter
... [illegible] ... longi-
tudinem ... [illegible] ... ima-
ginatur ... [illegible]
... [illegible] ... ad aliam.
Et ... [illegible]
... [illegible]
... resultet 3a ... [illegible]
... [illegible] ... terre
... [illegible] ... que ... dy-
ameter terre. ... [illegible]
... [illegible]
... [illegible] ... partes ...
... circulus ... [illegible]
... [illegible]
dyameter ... [illegible] ... est per
dyametrum sic circulus ... [illegible]
dyametri tripla ... septima
sit ... [illegible] ... contra
... [illegible] ... ra-
tione dyametri ... [illegible]
... circule ... [illegible]
dyameter ... [illegible] ... habeat
... [illegible]
dyametri faciat ... [illegible]
remanentis. ... [illegible] ... nota
practica ad inveniendum dyame-
trum ... [illegible] ... terre que
est 272000 divide per 22
... [illegible] ... erit ... 11474
que est vicesima 2a pars ...
... [illegible] ... terre ... [illegible]
... [illegible] ... terre ...

... [illegible]

0 5 4 6 Sed in prima divisione remanent 12 stadia a quibus debet tantum inveniri 20 3/7 partes sed non potest esse, quia divisor est maior, et dividendum resolutum ergo ista 12 stadia in fractiones et in vicesimas secundas sic multiplicando 12 per 22 et provenient 264 vicesimae secundae, quas vicesimas secundas divide per 22 et inde exibunt 12 vicesimae secundae, quae 12 debent poni sub ambitu terre, sed non potest esse in ambitu terre sed in tertia secunda, scilicet 22 stadiorum, scilicet stadiorum et quarta parte 12 vicesimae secundae unius stadii et stadiis scilicet ab illo numero 240546 et in fine remanet [illegible] que similiter resolventur in vicesimas secundas et plurimum 22 vicesimae secundae a quibus 22 subtrahe 12 vicesimas secundas et remanent 10 vicesimae secundae, quae sunt extremae in tabula. Postea ille numerus stadiorum, scilicet 240547, capiatur et dividatur per tria et unum septimum et inde exibunt 80181, ut patet in tabula.

Sed in tertia divisione adhuc remanent duo stadia quae debent resolvi in vicesimas secundas, sic multiplicando per 22 et provenient 44 vicesimae secundae, ad quas 44 adduntur 10 vicesimae secundae residuae in tabula et provenient 54, quae 54 dividuntur per 3 et inde exibunt 18 quae non possunt fieri in tertia stadii, capiatur ergo 11 partes stadii, quae valent 3 1/2 partes unius stadii et ille erit diameter terre, ut patet in tabula.

Alia practica.

Sequitur alia practica de inventione diametri terre. Diameter terre sic invenitur: recipe ambitum terre qui in auctoribus est iste 252000, quem divide per 22 et in quotiente quot venit provenient iste numerus 11454 qui numerus stadiorum est et 12 remanent in residuo que sunt 12 vicesimae secundae in [illegible] in tabula per 12 et per 12 divisionem habebis 20 3/7 partes 22 residuum terre et est hec 11454 qui numerus stadiorum et 12/22 quae est in residuo stadiorum 22 quae est iste 11454 et postea in hunc ambitum terre et provenient iste numerus 24057 6 a quo sumas [illegible] stadium et resolve in 22 et sic habebis 1 [illegible] 12 postea in tabula residuis [illegible] remanent 10 quae debent elevari, et 12 remanent in tabula et debet sic poni 10/22 et divide postea 3 1/7 partes ab ambitu terre et illud perfectum est iste 240547 et divide per 3 1/7 et in quotiente dico notandum conveniet provenient iste numerus 80181 qui numerus stadiorum diametri et duo stadia remanent in residuo quae resolve in 22 et habebis 44/22 quibus 22 adde 10 quae in tabula figuratis et habebis in toto 54 a quibus recipe 3 1/7 partes 22, divide per 3 et habebis 18 in quotiente quarum a quibus depone 11 quae faciunt unum stadium et remanent 7 que sunt 3 1/2 partes unius stadii, quibus si addantur [illegible] ambitus terre diameter terre perfecta 80181.

Item nota pro [illegible] terre fractiones practicae per [illegible] diametri terre multiplica ambitum terre scilicet 252000 per 7 et venient 1764000 quem productum totum divide per 22 et [illegible] quotiens essent tabulae diameter terre in stadiis in integris et 18 remanent in residuo quae sunt fractiones in vicesimas secundas et faciunt unum dividendum stadium et 3 1/2 partes stadii, ut patet in tabula: 18 per 22 [illegible] tabulae, 18 per 22 [illegible] 396 [illegible] 18 22 quae per 22 et remanent 18/22 quae valent dividendum stadium et 3 1/2 partes stadii et ista est practica in fractionibus, sed prima duarum [illegible] [illegible] [illegible] et est melior

[illegible]

[illegible] 18|1 [illegible]
[illegible]
[illegible]
[illegible] minima [illegible]
[illegible]
[illegible] 4 a o 90 [illegible]
[illegible]
[illegible] 11 idest [illegible]
[illegible] duo [illegible]
[illegible]
[illegible]
[illegible]
[illegible] duo [illegible]

Nota quod circulorum quidam
sunt maiores quidam minores ut vi-
sui patet. Circulus maior in
sphaera dicitur qui descriptus in super-
ficie sphaerae super centrum eius sphaeram
dividens in 2 aequalia.
Minor vero circulus dicitur qui descriptus
in superficie sphaerae non dividit eam
in 2 aequalia sed in portiones inaequales.

[illegible]

et circa [illegible]
caelesti et [illegible]
[illegible]
[illegible] astronomi [illegible]
[illegible] practica vel speculativa [illegible]
[illegible]
[illegible] practica et speculativa [illegible]
[illegible]

Quorum circulorum primo dicendum
est de aequinoctiali. Est igitur aequinoctialis
circulus dividens sphaeram in 2 aequalia
in qualibet sui parte aeque distans
ab utroque polo. Et dicitur aequinoctialis
quia quando sol transit per illum, quod fit
bis in anno, scilicet in principio arietis
et in principio librae, tunc est aequinoctium
in universa terra. Unde
appellatur aequator diei et noctis
quia adaequat diem artificialem nocti.
Et dicitur cingulus primi mobilis.

[illegible] parte autor [illegible]
[illegible] intentum [illegible]
primi motus. Secundo quod sit
[illegible] circuli aequinoctialis [illegible]
[illegible]

est 2o pot eius diuisa vocatur ibi
circulus appellatur 2 Secundo hoc dista
differt ab circulus punct' per quem ett
dicitur diuidens spacium in 2 equalia
2 per hoc differt ab aliis circulis
[illegible] Et 3 sup addit equalitor
distans ab utroque polo 2 per hoc diff
ert ab aliis circulis maioribus Sed
[illegible] et theodosius equocialis diei
[illegible] est circulus imaginatus
[illegible] est equaliter ex omni sui parte
distans equaliter [illegible] ubi
ab utroque polorum 2 [illegible] distinctio
aliorum duorum circulorum [illegible]
pz in [illegible] spacio ubi sensus visus
poly duas [illegible] [illegible]
[illegible] ubi 2 dicitur equoctialis
[illegible] circulus [illegible]
dit [illegible] dicitur equoctialis quia
vocatur Secundo dicitur [illegible]
sol motu suo [illegible] in [illegible] [illegible] et
[illegible] fit in [illegible] libre et
[illegible] tangit in [illegible] libre et
[illegible] ad duos [illegible]
[illegible] Circa [illegible]
[illegible] sol [illegible]
[illegible] dicitur equoctialis [illegible]
cio [illegible] orizontem [illegible]
[illegible] orizonte [illegible] dicitur equator
[illegible] sol in anno suo motu [illegible]
[illegible] describens dierum [illegible] adequat noc
[illegible] [illegible] [illegible] [illegible] ad
[illegible] adequat noct
[illegible] diei [illegible] [illegible] [illegible]
[illegible] libre diebus [illegible]
[illegible] [illegible] [illegible]
[illegible] et [illegible] [illegible]
[illegible] [illegible] sive [illegible]
et [illegible] [illegible] [illegible]
[illegible] sol [illegible] [illegible] [illegible]
[illegible] dicitur cingulus primi mobilis quia
diuidit primum mobile [illegible] nona spacium
[illegible] 2 equalia [illegible] cingulus [illegible]
diuidit [illegible] duas partes [illegible]
et in [illegible]
Ad secundum in quantum primus motus dicitur
primi mobilis [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
motus [illegible] dicitur [illegible] [illegible]
motus [illegible] qui [illegible]

[illegible] [illegible] qui fit [illegible]
[illegible] [illegible] [illegible] ubi [illegible]
[illegible] et motus [illegible] 2 [illegible]
[illegible] qui [illegible] [illegible]
2 [illegible] [illegible] [illegible] motus
dicitur [illegible] sive sensualis [illegible]
motus [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
dicitur cingulus primi mobilis vel
motus quia diuidit primum mobile
scilicet spacium nonum in 2 equalia et [illegible]
distans equaliter [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 2 [illegible]
[illegible] [illegible] [illegible] punct [illegible]
[illegible] in [illegible] [illegible] [illegible]
[illegible] 2 [illegible] in [illegible] [illegible]
[illegible] [illegible] ubi [illegible] duo [illegible]
[illegible] sic motus primi mobilis qui fit ab
oriente in occidente qui [illegible] motus diurnus
dicitur motus [illegible] [illegible] [illegible]
[illegible] [illegible] quo motu [illegible]
[illegible] in [illegible] [illegible]
2 dicitur [illegible] motus [illegible] in [illegible] qua
fit [illegible] [illegible] in [illegible] [illegible]
[illegible] motus [illegible] [illegible] [illegible]
[illegible] [illegible] fit [illegible] ab oriente
in occidente 2 [illegible] ad [illegible] motus
in [illegible] qui fit [illegible] [illegible]
[illegible] motus [illegible] dicitur [illegible]
[illegible] fit ab oriente in occidente [illegible]
[illegible] in [illegible] [illegible] motu primi mo
bilis [illegible] effectu [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] ad [illegible] magnitudinem [illegible]
[illegible] colore [illegible] ... planetarum
[illegible] ... sensualitas
[illegible] ... planetarum
[illegible] ... sensualitatis
[illegible] ... quod ab sensualitatis
[illegible] ... in augmentum [illegible]
[illegible] ... ut sensu
[illegible] in [illegible] se [illegible]
ad [illegible] et [illegible] dicitur
sensualitas quod [illegible] ad [illegible]
ad adolescencia [illegible] in [illegible] motu
dicitur [illegible] [illegible] dicitur
[illegible] dicitur [illegible]
[illegible] quod [illegible]
[illegible] et [illegible]
[illegible] omni tempore et [illegible] sit
[illegible] vero [illegible] dicitur [illegible]
[illegible] et dicitur [illegible]
[illegible] de [illegible] principio
[illegible] superioribus [illegible]
et [illegible] colliget in [illegible]
ut in homine colligabat [illegible]
[illegible] ut [illegible]
[illegible] ut [illegible]
ut [illegible] quod [illegible]
ad [illegible] in homine [illegible]
[illegible] dicitur [illegible]
[illegible] posito [illegible] in
homine [illegible] quod [illegible]
[illegible] quod [illegible] Augustinus
in [illegible] quod [illegible]
[illegible] qui [illegible] in [illegible]
[illegible] in [illegible]
[illegible] in [illegible]
[illegible] in [illegible]
[illegible] in [illegible] et [illegible] dicitur in
[illegible] capite i. [illegible] qui
[illegible] capitulo [illegible]
[illegible] dicitur [illegible] colligit quod [illegible]
in homine [illegible] motus [illegible] et
[illegible] ut [illegible] qui dicitur [illegible]
sic [illegible] in [illegible] motus
[illegible] ut [illegible]

Unde notandum quod polus mundi qui nobis
semper apparet dicitur polus septentrionalis
articus sive borealis. Septentrio-
nalis dicitur a septentrione [illegible] est

ursa vel dicitur arthos et trion quod
est bos quia septem stelle que sunt
in arthi ursa / trion [illegible] movetur ad
modum boum ad sic [illegible] polo sive
dicuntur ille stelle septentriones [illegible]
a bobus [illegible] quod terram [illegible] ad
polum articum. Articus dicitur a arthos
quod est ursa [illegible] ma-
iorem ursam. Borealis vero dicitur
quod est in ista parte aquilo vel boreas.
[illegible] polus vero contrarius huic dicitur
antarticus quia contra articum ponitur.
Dicitur eciam meridionalis quia est oppositus
meridiei. Dicitur eciam australis quia
est in ista parte aquilo vel auster.
Ista vero conjuncta in firmamento sensi-
bilia dicuntur poli mundi quia [illegible]
[illegible] et ad illos [illegible]
mundi [illegible] semper apparet [illegible]
[illegible] vero occultatur. Unde Virgilius:
Hic vertex nobis semper sublimis at illum
subpedibus stix atra tenet
manes et profundi. Hic magister
ponit [illegible] in quo [illegible] nomina
mundi et dividitur in duas partes.
Prima [illegible] illum poli qui nobis
semper apparet 2a illum qui nobis semper occul-
tatur 2a ibi polus vero contrarius.
Circa primum nota quod polus qui nobis
semper apparet vocatur hiis tribus nominibus
scilicet polus articus polus septentrionalis
et polus borealis. Circa duo [illegible]
[illegible] ursa [illegible]
ursa [illegible] vel caput [illegible]
celi in quo [illegible] quod [illegible]
[illegible] in duas partes [illegible]

et vnius medietas que declinat in vna parte dicitur septentrionalis alia meridionalis [illegible] alius vero [illegible] opposito [illegible] vocatur quia dicitur polus antarticus [illegible] et articus [illegible] dicitur [illegible] circuli deque situatur [illegible] australis quia [illegible] [illegible] vel [illegible] [illegible] polus [illegible] [illegible] meridie [illegible] et septentrionale [illegible] quod polus articus [illegible] polus antarticus [illegible] [illegible] et [illegible] in isto [illegible] [illegible] et [illegible] [illegible] [illegible] polus articus [illegible] [illegible] [illegible] polus antarticus [illegible] dicitur [illegible] [illegible] [illegible] [illegible] [illegible] stellas [illegible] et [illegible] et [illegible] dicitur septentrionales et [illegible] [illegible] [illegible] [illegible] stellas [illegible] et [illegible] [illegible] polus antarticus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] polus [illegible] [illegible] vero [illegible]

Est etiam alius circulus in spera qui intersecat equinoctialem et intersecatur ab eo in duas partes equales et vna eius medietas declinat versus septentrionem et alia versus austrum [illegible] [illegible] [illegible] [illegible] [illegible] dicitur zodiacus et dividitur in [illegible] partes [illegible] zodiacus [illegible] [illegible] [illegible] [illegible] [illegible] signi ostendit [illegible] [illegible] [illegible] signorum [illegible] [illegible] [illegible] [illegible] [illegible] zodiacus [illegible] [illegible] [illegible] [illegible] septentrionem [illegible] [illegible] [illegible] [illegible] zodiacus [illegible] [illegible] [illegible] [illegible] zodiacus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

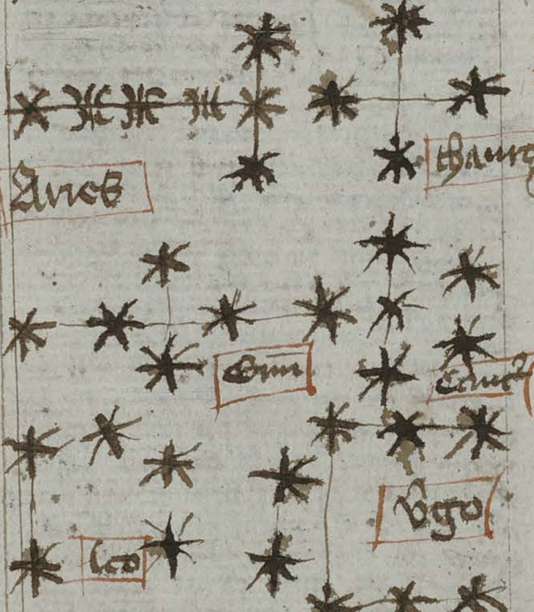
[illegible]

Et dicitur ille circulus zodiacus a zoe quod est vita quia secundum motum planetarum sub ipso est omnis vita in rebus inferioribus. Vel dicitur a zodion quod est animal et ideo signa istius circuli animalium [illegible] iste circulus dividitur in 12 partes equales quelibet pars appellatur signum et nomen habet speciale a nomine alicuius animalis propter [illegible] aliquam convenientiam [illegible] sive quod aliud [illegible] dispositionem stellarum fixarum in illis partibus [illegible]

aliquam [illegible] latitudine dicitur signifer quia fert signa vel dividitur [illegible] in fine declinationis et comparatione dicitur circulus obliquus ubi dicitur quod ratione accessus et recessus solis in circulo obliquo fiunt generationes et corruptiones in rebus inferioribus.

[illegible]

stellarum cum talibus aliubus
ut patet depictione horum signorum
Est nota latitudine illo circulo dicitur [illegible]
Est nota latitudine et circulo dicitur signiferi
quod predicta 12 signa tamquam sunt
partes [illegible] revolutionem [illegible]
[illegible] 3o dicitur circulus obliquus et dividit
equinoccialem [illegible] angulos
[illegible] ex [illegible] 2o [illegible]
dicit [illegible] sol in obliquo circulo est
causa generacionis et corrupcionis [illegible]
in [illegible] et [illegible]
quia in accessu et recessu sol [illegible] circulo
obliquo fiunt generaciones [illegible]
accessus sol dicitur [illegible] sol [illegible]
[illegible]
sed recessu sol dicitur [illegible]
libre [illegible] sagittarii [illegible]
[illegible] vegetabilia et fru-
ctus [illegible] et corrumpuntur [illegible] dicitur ar-
[illegible] accedunt [illegible]
fructus [illegible] in [illegible]



Nomina vero signorum [illegible]
[illegible] 12 [illegible]
[illegible] sunt / aries / taurus / gemini /
cancer / leo / virgo / libra / scorpio /





[illegible] capricornus / aquarius / pisces /
Tercia [illegible]
[illegible] signo [illegible]
[illegible]
[illegible]
primo ponit [illegible] signorum [illegible]
signorum [illegible]
[illegible] quod [illegible]
[illegible]
[illegible] primo ponit nomina signorum
[illegible] signorum [illegible]
signorum [illegible]
[illegible]
zodiaco [illegible] ponit [illegible]
aries primo ponit [illegible]
[illegible] signorum [illegible]
[illegible] signum [illegible] aries et dicitur [illegible]
quia [illegible]
[illegible] signum [illegible]
astronomi [illegible]
[illegible] sol [illegible]
Est [illegible] aries in [illegible]
[illegible]
[illegible]
[illegible]
[illegible] taurus [illegible]
[illegible] taurus [illegible]
[illegible] sol in [illegible]
[illegible] taurus [illegible] constellatio
in signo isto [illegible]
dicitur gemini et [illegible]
[illegible] et dicitur gemini quia
sole in hoc signo [illegible]
[illegible] in [illegible]
[illegible]
[illegible] cancer [illegible]
[illegible] leo et dicitur [illegible]
quia [illegible] leo est [illegible] et fortissimus
sole in isto signo [illegible] fortissimus
est calor [illegible]
[illegible]
[illegible] est [illegible] stella [illegible]
[illegible] dies caniculares
[illegible] virgo [illegible]
[illegible] sol in signo [illegible]

quae fiunt et [illegible] ad [illegible] [illegible]
dies et [illegible] [illegible] quod et virgo
[illegible] [illegible] [illegible] Septimum
7m signum est libra quia sicut libra est
[illegible] sic [illegible] ponderatio sic
sol in primo gradu librae [illegible]
8m [illegible] causat [illegible] Octavum dicitur
scorpio [illegible] [illegible] aliis [illegible]
blandit et lingit cum lingua et pungit
cum cauda sic sol [illegible] isto si
gno [illegible] lingit [illegible] in principio
sed pungit cum cauda inducendo ni
9m ves et frigora. Nonum signum est
sagittarius quia sicut sagittarius emittit
tela [illegible] ostendendo sic sol in isto
signo fortissime emittit super nos tela
nivium et [illegible] et hoc est
10m quia frigidissimum. Decimum dicitur capricornus
quia sicut capricornus semper tendit ad ascen
sum [illegible] sic sol [illegible] gradum
capricorni incipit ascendere [illegible] et
11m tunc dies incipit prolongari. Undecimum
dicitur aquarius et [illegible] quod [illegible]
[illegible] ut [illegible] [illegible]
[illegible] quia sol in isto signo [illegible]
12m [illegible] aquas infundit. Duodecimum dicitur
pisces et [illegible] [illegible] duo [illegible]
[illegible] quia sicut pisces sunt [illegible]
[illegible] et humida sic sol eo tempore causat
frigida et humida. Ulterius videndum
[illegible] signa dividuntur in [illegible] et 3
[illegible] in qualitatibus et influentiis
ut aries sagittarius leo sunt ignea
gemini libra aquarius sunt aerea
pisces scorpio cancer aquatica
virgo capricornus taurus terrea [illegible]
[illegible] signa et [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

Secundo sciendum quod quodlibet signum divi
ditur per 30 gradus ita quod
in toto zodiaco sunt 360 gradus
secundum astronomos. Et quilibet
gradus dividitur 60 minuta
et quodlibet minutum in 60 secunda et
quodlibet secundum in 60 tertia secundum doctrinas
[illegible] ad [illegible] partem sicut

dividitur zodiacus ab astronomis
ita quaelibet coeli [illegible] sive
sit aer sive [illegible] in partes
consimiles dividitur. [illegible]
[illegible] parte [illegible] dividit divisionem
zodiaci et sub divisione signorum
et [illegible] quod [illegible] astronomus quod libet
signum coeleste dividitur in 30 gradus
in longitudine et quilibet gradus in 60
minuta et quodlibet minutum in 60 secunda et
quodlibet secundum in 60 tertia et quodlibet tertium
60 [illegible] et ultimo [illegible] sit [illegible]
sed in [illegible] sit [illegible]. Tertio signum
[illegible] duo quaedam astronomicum et
physicum quod est 12a pars zodiaci
sed signum physicum continet 12 sig
num et est [illegible] pars 30. Item
subdit sicut dividitur coelum 30
in 12 partes aequales ita per [illegible]
[illegible] coelum [illegible] sive sit aer
sive [illegible]. Dicit aliquis quod
astronomi ita signa dividunt in mi
nuta et minuta in 2a et in 3a et in
partes. Quinto quod hoc est [illegible]
[illegible] coeli ut per hoc certi
[illegible] [illegible] aliquis pla
neta in aliquo signo [illegible] [illegible]
nos sit [illegible] signa ut [illegible]
annis [illegible] [illegible] [illegible]
[illegible] stellae in signis

Sexto [illegible] omnes coelum [illegible]
partem zodiaci intelligatur ut linealis
circumferentia solius zodiaci in
[illegible] superficie habens lati
tudinem gradus 12 [illegible] gradi
bus [illegible] [illegible]. Septimo patet
quod quidam [illegible] dicit
[illegible] signa esse quadrata et
non quadrangula [illegible] [illegible]
nomine [illegible] appellat quadrata

et quadrangulum et quodlibet eorum signum

habet 30 gradus in longitudine et latitudine

in latitudine ut scripsit [illegible] Contra ista pretendunt Remonet Cremonensis et alios ponit dicunt quod zodiacus et celestes orbes longitudine dimensio et sua patet in tractatu de orbe celi in sua spera celesti preter zodiacum solummodo spera celesti [illegible] concavitate [illegible] conspicientes propter continuitatem superficiei celestis et nullus aliorum celorum considerationem [illegible] latitudine zodiaci vero conscidit [illegible] latitudine 12 gradus et omnes alii circuli [illegible] circulos conveniunt cum zodiaco quam [illegible] equalem longitudinem cum eo sed differunt ab eo quia non conscidunt et [illegible] aliqua latitudine zodiacum vero conscidit [illegible] latitudine ut patet in tractatu Secundo dicit aliquis quod nullus circulus ... aliquis preter zodiacum [illegible] latitudinis cum ab obliquo circulus est linea [illegible] recta linea [illegible] puncto [illegible] latitudine ut patet per diffinitionem linee [illegible] mathematicos qui dicit quod linea est quantitas habens longitudinem sine latitudine et profunditate Tertio dicit aliquis quod ponit zodiacum esse latum [illegible] latitudine [illegible] latitudines [illegible] quia planete [illegible] vel [illegible] zodiaco dicto vel [illegible] qui [illegible] suorum [illegible] ultra zodiacum et [illegible] in uno et eodem signo [illegible] magis apparent [illegible] et minus et [illegible] esset [illegible] zodiacum esset aliquid latitudinis et [illegible] maxime apparet [illegible] sensum [illegible] latitudo [illegible] non [illegible] eclipsis solis et in omni oppositione eclipsis lune quia luna non [illegible] soli [illegible] solem [illegible] in sua [illegible] celi [illegible] Remonet Cremonensis et aliorum antiquorum [illegible] cum signa esse quadrata ut patet [illegible] quadratum [illegible] signum omnia latera sunt equalia vel quod [illegible] latera equalia ut in hoc □ [illegible] quadrangulus [illegible] unum latus est longius quam aliud vel quadrangulus [illegible] signum [illegible] latera [illegible] □

et [illegible] signa [illegible] sunt quadrata [illegible] [illegible] et 30 in longitudine [illegible]

Item linea dividens zodiacum [illegible] ita quod ex una parte [illegible] 6 gradus et ex alia parte alios 6 gradus dicitur linea ecliptica quia sol et luna sunt linealiter sub ipsa [illegible] contingit eclipsis solis et lune sol si sit [illegible] et luna inter solem [illegible] inter [illegible] et [illegible] lune ad defectum fit in plenilunio quando sol opponitur lune diametraliter et terra inter cadit media inter eorum diametrum Et [illegible] tempore eclipsis lune [illegible] non [illegible] lune et [illegible] solis Sol autem [illegible] sub ecliptica omnis alii planete declinant versus septentrionem vel versus [illegible] quia [illegible] sunt sub ecliptica Item pars zodiaci que declinat ab equinoctiali versus septentrionem dicitur septentrionalis vel borealis vel artica et in sex signis [illegible] aries [illegible] ad finem virginis dicitur septentrionalis [illegible] 30 [illegible] dicitur

[illegible] uel hemisperium [illegible] 6
signa que sunt apud [illegible]
[illegible] medietatem zodiaci
In ista parte [illegible] de linea
ecliptica quando [illegible] et dicit
quia planete mouentur sub zodiaco ubi

linea ecliptica

[illegible] quia sol semper currit. Una autem
linea ecliptica est linea diuidens
zodiacum in longitudine per medium quia
utraque parte 6 gradus relinquens
Alii uero planete mouentur aut sub zodiaco
sed differentia modo quia sol semper mouetur
sub ecliptica alii planete aliquando
declinant versus hemisperium aquilonare sub
septentrionale aliquando aut sub linea
ecliptica. Causa quare planete [illegible]
solem mouentur in epiciclis et eccentricis
et [illegible] declinant ab ecliptica sed
sol non habet epiciclum in quo mouetur sed
tantum habet eccentricum sed iste non declinat
a linea ecliptica et sic epicicli sunt
causa et eccentrici quare non semper fit eclip-
sis in nouilunio quia ad eclipsim
solis oportet quod luna linealiter et diame-
traliter opponatur soli sed hoc non semper con-
tingit in nouilunio propter epiciclos
sed solum hoc fit in cauda et capite
draconis. Et [illegible] ibi fit eclipsis
[illegible] in fine. Item secundo propter
hoc [illegible] diuidit zodiacum in duas
partes scilicet in partem septentrionalem arcticam
[illegible] borealem et [illegible] sex
signa ut patet in textu. Alia autem
pars dicitur meridionalis uel antarctica uel ha-
ustralis et [illegible] alia sex signa
sicut [illegible] patet in textu. Item uero ista
signa dicuntur signa [illegible]
sed astronomi ponunt plura alia unde
ptholomeus in almagesti distinc-
tione octaua dicit stelle que [illegible]
[illegible] per instrumenta possunt comprehendi
sunt mille et viginti due sed [illegible]
[illegible] loquimur [illegible]
[illegible]. Item uero [illegible]
signa septentrionalia signa dicuntur esti-
ualia quia in illis fit estas [illegible] si-
gna hemisperii [illegible] dicuntur signa hiemalia
quia in illis fit hiems. Item uero [illegible]
[illegible] et [illegible] zodiacum [illegible]
[illegible] diuisione [illegible]
in longitudine sed non in medietates

sed solum in 12 signa ut patuit
supra. Alia uero diuisio est in latitudine
que est in duas medietates quas
ecliptica abinuicem distinguit
[illegible] zodiacum diuidit
in duas partes in longitudine quarum
prima uocatur septentrionalis alia ha-
ustralis
Item cum sol dicitur esse in ariete uel
in alio signo [illegible] simul
[illegible] accipimus signa
[illegible] alia [illegible] dicitur
signum [illegible]
basis [illegible] superficies [illegible]
[illegible] signum [illegible] in
centro terre [illegible] loquimur et
[illegible] possunt dici planete et in
signis. Tertio uero dicitur signa
intelligi 6 circuli transeuntes
super polos zodiaci et [illegible] 12
signorum et isti 6 circuli diuidunt
totam superficiem spere in 12 partes
latas in medio [illegible] uero
polos et [illegible] dicitur sig-
et [illegible] nomen speciale [illegible] illius
signi quod intercipitur inter duos li-
neas et [illegible] signum
stelle que sunt inter polos di-
cuntur esse in signis. Item intelli-
gitur corpus quod [illegible] cuius basis
est signum [illegible] ac-
cipimus signum [illegible] cuius
sit super axem zodiaci [illegible]
[illegible] in centro [illegible] signi
[illegible] accipitur totum [illegible]

in 12 partes equales que di-
cuntur signa et sic quod quod cuius est
in medio est in aliquo signo
Cum ista parte magis potest acceptari
signi [illegible] quod sit
sole vel aliud planeta esse in signo
et dividitur in 4 partes 2a quod ponit
[illegible] signi [illegible]
[illegible] in [illegible] signum po-
nitur accipi pro 12a parte zodiaci ut
[illegible] sol est [illegible]
[illegible] sol est [illegible] parte zodiaci
que dicitur signum [illegible] in
[illegible] sol [illegible] sol est [illegible]
[illegible] in [illegible]
[illegible] intelligit [illegible]
[illegible] in [illegible] et [illegible] est quod
[illegible] in [illegible] et [illegible]
[illegible] planete
[illegible] linea [illegible]
[illegible] signi [illegible]
planeta et [illegible] linea [illegible]
[illegible] sol [illegible]
[illegible] in isto signo [illegible]
in alio [illegible] maiorem di-
[illegible] est [illegible] et signum [illegible]
[illegible] signum est [illegible] zodiaci zo-
[illegible] potest [illegible]
[illegible] sol est in [illegible]
[illegible]
Cum [illegible] piramidali [illegible] cuius
signum [illegible] sit superficies sig-
[illegible] et corpus cuius in centro [illegible] planete
qui sit in hac piramide dicitur esse
in signo [illegible] superficies sig-
[illegible] intelligere superficiem [illegible]
[illegible] zodiaci et [illegible] signi [illegible]
sub quadrangula [illegible] imaginacionum
[illegible] angulis [illegible] signi dicitur
[illegible] linea [illegible]
sic quod iste [illegible] linee [illegible]
[illegible] angulis [illegible] signi [illegible]
[illegible] angulis signum piramidale
quadrilaterum [illegible] signi
[illegible] quod capit infra
[illegible] piramidem [illegible] dicitur esse
in signo zo[illegible] infra
corpus mundi et [illegible] zodiaci

quod sit in aliquo signo [illegible]
Cum [illegible] imaginacio [illegible] signum zo[illegible]
[illegible] totus [illegible]
[illegible] in 12 [illegible]
partes equales [illegible]
quibus superficies [illegible]
sic [illegible] signi zo[illegible] capti
Cum [illegible] accipitur [illegible]
[illegible] celi [illegible]
zodiaci in [illegible] tota [illegible]
[illegible] in 12 partes equales
[illegible] celi [illegible] propria signa
et illi celi [illegible] tota superfi-
[illegible] celi [illegible] tota superfi-
[illegible] in 12 partes [illegible]
[illegible] in fine [illegible] polos
[illegible] signum [illegible]
[illegible] quibus [illegible] signum [illegible]
illius signi quod [illegible]
[illegible] et in illud [illegible]
[illegible] in celo dicitur esse in signo
Cum [illegible] acceptionem [illegible]
est ista imaginacio quod capitur [illegible]
superficies [illegible]
[illegible] duos circulos et imaginetur [illegible]
quod corpus cuius basis est [illegible] super-
ficies ita quod corpus cadit super [illegible]
zodiaci [illegible] sit [illegible] corpus [illegible]
[illegible] zodiaci et [illegible]
[illegible] cadat infra id corpus sic
imaginato [illegible] imaginetur [illegible]
[illegible] corporum [illegible]
in medio [illegible] signo [illegible]
Cum [illegible] signum [illegible]
[illegible] planete dicitur esse in signum
zo[illegible] stelle [illegible] dicitur [illegible]
[illegible] dicitur esse in [illegible]
[illegible] signo Cum [illegible] signum [illegible]
ista imaginatio [illegible] corpus [illegible]
[illegible] Cum [illegible] sic [illegible]
[illegible] ad signum [illegible] sic [illegible]
[illegible] ad signum [illegible]
[illegible] similitudo [illegible] signum [illegible]
[illegible] signi [illegible] sic signum zo[illegible]
[illegible] signi [illegible] Cum [illegible]
[illegible] accepcionem [illegible]
signum [illegible] corpus vel superficies [illegible]
superficies [illegible]
[illegible] super corpus planete [illegible] vel [illegible]
[illegible] zodiaci [illegible]
[illegible] signum zo[illegible]
corpus [illegible] vel piramidale vel

[illegible] sic [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sic [illegible] [illegible]
et [illegible] [illegible] [illegible]
Circuli autem alii circuli et in spera
circulis coluri [illegible] [illegible] est di
stinguunt solsticia et equinoctia et
dicuntur coluri [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] cauda bovis sicut
[illegible] [illegible] [illegible] [illegible] [illegible]
fit semicirculus et [illegible] [illegible] ita
colurus [illegible] apparet imperfectus quia
[illegible] [illegible] [illegible] medietas apparet
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] qui dicuntur duo coluri et
[illegible] dicitur colurus solsticiorum et alius
equinoctiorum et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
qui distinguunt solsticia [illegible] [illegible]
qui distinguunt equinoctia [illegible] [illegible] [illegible]
[illegible] distinguentes solsticia [illegible] [illegible]
alii quidem [illegible] [illegible] [illegible] [illegible]
circuli [illegible] in hoc quia ambo [illegible]
circuli [illegible] distinguentes [illegible] in
duo equalia sed differunt in hoc quia
unus distinguit solsticia alter
[illegible] et [illegible] [illegible] [illegible] [illegible] [illegible]
dicit [illegible] [illegible] [illegible] quia
[illegible] erigit [illegible] [illegible] [illegible]
semicirculi [illegible] [illegible] [illegible] coluri
[illegible] in [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] medietas coluri
videtur in spera [illegible] orizon dividit eum
in duas partes equales et [illegible]
[illegible] [illegible] [illegible] super orizontem [illegible]
sed alia occultatur [illegible]

Volumus ergo distinguentes solsti
cia [illegible] polos mundi et [illegible]
los zodiaci et [illegible] sol

declinacionis [illegible] [illegible] [illegible] [illegible]
cancri et capricorni. Unde [illegible] [illegible]
[illegible] cancri est ubi colurus [illegible]
cat zodiacum [illegible] puncto solsticii
estivalis [illegible] quia sol est in [illegible]
solsticium estivale [illegible] [illegible] sol
magis accedit ad cenit capitis
[illegible] [illegible] [illegible] [illegible] [illegible] in
[illegible] [illegible] [illegible] capi
[illegible] [illegible] [illegible] [illegible] coluri [illegible]
[illegible] [illegible] puncto solsticii
estivalis et equinoctialis appellatur
maxima solis declinacio sive
[illegible] et est [illegible] [illegible]
23 graduum et 51 minutorum
[illegible] almeone [illegible] 23 graduum
et 33 minutorum. Similiter [illegible]
[illegible] capricorni dicitur [illegible] solsti
cii hiemalis [illegible] [illegible] coluri [illegible]
[illegible] [illegible] puncto [illegible] et [illegible] [illegible]
[illegible] maxima solis declinacio [illegible]
equalis [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] solsticia et [illegible] [illegible] [illegible]
[illegible] coluri solsticiorum [illegible] [illegible]
[illegible] solsticia [illegible] [illegible] coluri [illegible]
[illegible] maxima solis [illegible] [illegible]
et [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] solsticiorum [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] dicit
[illegible] solis declinacionis [illegible]
[illegible] solis declinacio [illegible]
[illegible] sol [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] solis [illegible] [illegible] sol accedit

adeo quod in tanto spacio temporis accedit non potest et ista duo puncta in quibus sol manet quo ad in ascensionem celi vocantur 2 declinationum et dicuntur 2 solsticia. Unde solsticium dicitur quasi sol stans non quod sol ibi stet sed ideo quia quando sol transit per ista duo puncta solsticia sol [illegible] quorum primum punctum cancri et secundum [illegible] capricorni sed amplius non ascendit punctum capricorni nec amplius descendit. Alii sic [illegible] solsticium dicitur ut descendit [illegible] sic [illegible] dies longissima et nox brevissima vel e converso dies brevissima et nox longissima et hec accidit quando sol est in primo gradu cancri [illegible] quod sol est in primo gradu capricorni et illud solsticium [illegible] alio modo maxima declinatio solis est. Alii vero puncta solsticiorum [illegible] per quem colurus [illegible] transit et est zodiacum intersecat. Vel per [illegible] et [illegible] ferre 3a dicit [illegible] vel hec [illegible] accidit plus [illegible] accidit capitis [illegible] quod non accidit dicitur [illegible] colurus [illegible] caput [illegible]. Alio modo [illegible] super [illegible] [illegible] accidit [illegible] per caput [illegible] ad [illegible]. Ut [illegible] accidit [illegible] puncta [illegible] [illegible] regionum [illegible] ad [illegible] in imaginacione et [illegible] accidit [illegible] in [illegible] vitate vel regione [illegible]. Sed [illegible] puncta in celo [illegible] supra [illegible] capiti [illegible] et [illegible] vel [illegible] et [illegible] [illegible] [illegible] accidit [illegible] situ [illegible] non accidit [illegible] appellatur punctus casus lapidis ut patet per [illegible] in libro de speculis et racio quia si lapis [illegible] accidit cadet per lineam [illegible] caderet super caput [illegible] casus lapidis dicitur [illegible] sub dit [illegible] colurus qui est [illegible] colurus qui [illegible] in medio [illegible] puncta solsticii [illegible] [illegible] gradum cancri et equinoctialem [illegible] appellatur maxima solis declinacio septentrionalis [illegible] gradus capricorni dicitur puncta solsticii hiemalis [illegible] colurus intersecat [illegible] primum gradum capricorni et equinoctialem dicitur maxima solis declinacio et [illegible] [illegible] et [illegible] [illegible]

ut [illegible] et dicitur [illegible] meridionalis [illegible] [illegible] ab equinoctiali [illegible] sol est in [illegible] primo gradu libre et [illegible] sub equinoctiali [illegible] ab equinoctiali declinat polo antartico declinat [illegible] versus septentrionalem [illegible]

Sequitur questio

Et [illegible] dubitaret aliquis utrum primus gradus capricorni et cancri sint maxime declinaciones solis vel elevaciones et dicitur quod sic et probatur quia duo puncta dicuntur maxime declinaciones solis in quibus sol [illegible] plus descendit ab equinoctiali sed primum punctum cancri et primum punctum capricorni sunt huiusmodi ergo etc. Et [illegible] utrum coluri sint principia distinguendi solsticia et equinoctia dicitur quod sic et probatur quia in istis duobus punctis in quibus coluri intersecant zodiacum [illegible] solsticia et in aliis duobus punctis equinoctia ergo [illegible] [illegible] congruentem motum colurorum ergo etc. [illegible] principia distinguendi solsticia et equinoctia

Alter quidem colurus transit per polos mundi et per prima puncta arietis et libre ubi sunt duo equinoctia unde appellatur colurus distinguens equinoctia. Notandum ergo quod coluri duo intersecant se super polos mundi ad angulos sphericos rectos [illegible] solsticiorum et equinoctiorum patet ex predictis. Hec duo solsticia faciunt cancri capricorni. Sed notandum quod iuxta predicta auctores libris dicuntur [illegible] [illegible] colurorum equinoctiorum et faciunt duo [illegible] quod [illegible] est 2o [illegible] sole [illegible] [illegible] solsticiorum [illegible] [illegible] [illegible] [illegible] coluros

[illegible]

Sunt iterum duo circuli certi in spera scilicet meridianus et orizon. Circulus meridianus est circulus quidam transiens per polos mundi et per cenit capitis nostri. Et dicitur meridianus quia ubicumque sit homo et quocumque tempore anni quando sol motu firmamenti pervenit ad suum meridianum

est illi meridies. Consimili ratione dicitur circulus medii diei. Sed

[illegible]

meridianum. Ultimo nota sicut facit meridiem omnibus [illegible] sole lucente constituit unum circulum in plano in quo oculi medio orizontis unde si[gillum] perpendiculare qui sit lucente centro per umbra eius tangat circumferenciam circuli et ponatur [illegible] ubi sol lucet mane [illegible] sole oriente notetur umbra illius sigilli scilicet in quo puncto tangit circumferenciam circuli et similiter facit de vespere [illegible] in occidente [illegible] et [illegible] capiatur inter duo puncta scilicet divisio [illegible] linea recta per centrum circuli [illegible] sigilli fiat super ipsa linea [illegible] meridianus vel omni tempore [illegible] meridianus [illegible] oriens et meridianus [illegible] regionis diversa [illegible] Unde [illegible] civitates [illegible] alium orientem [illegible] civitates [illegible] in [illegible] oriente et [illegible] alium [illegible] meridianum [illegible] alium [illegible] [illegible] latitudine [illegible] quod in latitudine [illegible] oriens et occidens [illegible] meridianum [illegible] [illegible] [illegible] 100 mi[liaria] vel ultra versus polo articum [illegible] oriens et occidens meridianum [illegible] [illegible] [illegible] [illegible] civitate in [illegible] meridianum [illegible] [illegible] vel [illegible] [illegible] ipsi in [illegible] meridianus [illegible] [illegible] meridianum et orientem [illegible] [illegible] oriens [illegible] quia [illegible]

Et nota quod due civitates quarum una magis accedit ad orientem quam alia diversos habent meridianos. Arcus vero equinoctialis interceptus inter duos meridianos dicitur longitudo civitatis. Si autem due civitates eundem meridianum [habuerint, tunc equali]ter distant ab oriente et occidente.

[illegible] [illegible] [illegible] ibi [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] meridianos dicitur longitudo civitatis [illegible] quo due civitates dicuntur [illegible] longitudo et latitudo [illegible] in [illegible] ab oriente [illegible] latitudo vero [illegible] a circulo equinoctiali [illegible] civitates [illegible] in longitudine [illegible] eundem meridianum sed diverse in latitudine [illegible] eundem meridianum [illegible] [illegible] quod due civitates [illegible] eundem meridianum [illegible] distant et [illegible] meridianos [illegible] regionum [illegible] circuli equinoctialis interceptus [illegible] meridianos dicitur longitudo [illegible] [illegible] meridianos [illegible] [illegible] [illegible] [illegible] civitates vel regiones [illegible] interceptus [illegible] 100 [illegible] [illegible] eclipsis solis aut lune [illegible] [illegible] [illegible] meridianum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Orizon vero est circulus dividens inferius emisperium a superiori. Unde appellatur orizon i. terminator visus. Dicitur autem circulus emisperii. Est autem duplex orizon scilicet rectus et obliquus

sine declinatione. Orizon autem rectus et sphaera recta dicitur illis quorum cenit est in equinoctiali, quia istorum orizon est circulus transiens per polos mundi dividens equinoctialem ad angulos rectos et sphaeraliter. Unde dicitur orizon rectus et sphaera recta dicitur. Obliquus orizon sive declinis dicitur illis quibus polus mundi elevatur supra orizontem. Quia illorum orizon intersecat equinoctialem ad angulos impares et obliquos, ideo dicitur orizon obliquus et sphaera obliqua sive declinis. Cenit autem capitis nostri

[illegible]

Unde ex hiis patet quod quanta est elevatio poli mundi super orizontem tanta est distantia cenit ab equinoctiali. Quod sic patet in quolibet die naturali utrumque colurorum bis in[?] meridiano sive sit [illegible] quod

meridianum quia quando perficitur
secundo et relicto. Dividatur ergo
quarta pars coluri distinguentis
solsticia que est ab equinocciali
usque ad polum mundi. Dividatur
in quarta pars eiusdem coluri que
est a cenit usque ad orizontem
cenit sit polus orizontis. Iste
due quarte cum sint quarte eius-
dem circuli inter se sunt equales.
Sed si ab equalibus equalia
demantur ut dicit communis residua
erunt equalia. Dempto ergo communi ar-
cu scilicet qui est inter cenit et polum
mundi residua erunt equalia scilicet
elevacio poli mundi super ori-
zonte et distancia cenit ab
equinocciali. In ista particula
[illegible] magister [illegible]
per quod notificat elevacionem poli
super orizontem et distanciam cenit
ab equinocciali. [illegible] ipsum
[illegible] ipsa [illegible] venit ad oppositionem
[illegible] in [illegible] cenit est in equinocciali
et sic neuter polorum elevatur super orizontem
et cenit est polus orizontis ergo sicut
ubi nulla est elevacio poli super orizontem
sic nec ubi est distancia cenit
ab equinocciali. [illegible] ambulans
ab equinocciali versus aquilonem per 100 sta-
dia habebit tantam elevacionem poli

ad unum gradum super orizontem et tantam
distanciam cenit ab equinocciali habebit
unum gradum. Et iterum ambulans per 100
stadia fuerit elevatus polus ad duos gradus
et iterum cenit ab equinocciali [illegible]
[illegible] polo
[illegible] in aliis elevacionibus ut 70 gradus
[illegible] distancia cenit [illegible] ab equinocciali
ut 70 graduum et [illegible]
[illegible] civitate [illegible]
[illegible] civitate [illegible] 30
milia stadiorum [illegible] 100
per 70. Subdit [illegible]
[illegible]
meridianum [illegible] ab equinocciali
cenit polo et orizonte et meridiano
[illegible] ipsa et [illegible]
[illegible] conclusione [illegible] probat
de meridiano sed [illegible] equinoctialis
affigitur colurus et meridianus [illegible]
[illegible] distinguentis
[illegible] meridianum in colurum et
[illegible] meridianum [illegible]
[illegible] coluri distinguentis solsticia cum
[illegible] ad meridianum
cum meridiano ad probandum conclusionem
intentam ponit duo. [illegible]
[illegible] meridiano [illegible]
[illegible] si ab equalibus equalia demantur
remanencia erunt equalia [illegible]
[illegible]
quarta pars coluri distinguentis solsti-
cia que est ab equinocciali [illegible]
usque ad polum mundi et similiter una
alia quarta eiusdem coluri incipien-
do a cenit [illegible] polum mundi usque [illegible]
[illegible] ad orizontem quia [illegible]
[illegible] est polus orizontis iste due quarte
sunt equales quia quelibet habet 90 gradus
quia quilibet circulus habet 360 gradus
et quarta pars est 90 graduum similiter
[illegible] equales [illegible] quia sunt quarte eiusdem
coluri. Ergo si ab equalibus equalia demantur
remanencia erunt equalia ut in simili
si equalia equalibus addantur resultancia
erunt equalia ut patet primo Euclidis
[illegible]
[illegible] medii [illegible]
[illegible] ad equinocciale. Alterius vero di-
[illegible] circuli colurus distinguit
solsticia [illegible]
[illegible] primo [illegible] ab equinocciali [illegible]
[illegible] ad polum [illegible]
ultimo [illegible] ab equinocciale

ectio ab aequinoctiali [illegible]
versus ad polum antarcticum [illegible]
a polo antarctico [illegible]
[illegible] ubi est [illegible]
Et non [illegible] circulos
[illegible] astronomi [illegible] aliud circulum
[illegible] altitudinum
sed [illegible] omisit propter [illegible]
[illegible] illius circuli [illegible]
stelle [illegible] et apparet [illegible]
[illegible] galaxiam quia
[illegible] circulus [illegible] et
[illegible] ad [illegible] planetarum
[illegible] dicitur [illegible]
[illegible] ad [illegible] climata [illegible]
galaxia apud antiquos dicebatur
[illegible] via [illegible]
via lactea appellatur sed [illegible]
propter [illegible] via ad curiam
romanam [illegible]

[D]icto de quatuor circulis maio-
ribus dicendum est de minoribus.
Cum ergo sol sit in primo
puncto cancri sive in puncto sol-
stitii estivalis raptu firma-
menti describit quendam circulum qui
ultimo descriptus est a sole circa
polum arcticum, appellatur circulus
solstitii vel tropicus estivalis et
dicitur a tropos quod est conversio quia tunc
sol incipit convertere se ad inferius
emisperium et recedere a nobis. Sol
iterum existens in primo puncto capricorni
sive solstitii hiemalis raptu fir-
mamenti describit quendam circulum
qui ultimo descriptus a sole circa
polum antarcticum appellatur
circulus solstitii hiemalis sive tro-
picus hiemalis quia tunc sol convertitur ad nos.

Hos duos circulos. Hec est 2a pars
[illegible] in qua [illegible]
[illegible] circulos minores et generaliter sic
[illegible] circulis
minoribus [illegible]
et [illegible] imaginatum
[illegible] minoribus
et dividitur in duas partes [illegible]
[illegible] in 2a [illegible]
[illegible] ibi [illegible] maiorem
sol declinationem. Prima in tres partes [illegible]
primo determinat de tropico estivali 2o
de tropico hiemali 3o de circulo artico
et de circulo antartico 2a ibi Sol iterum
existens in primo puncto capricorni 3a ibi
Cum autem zodiacus declinet ab aequinocti-
ali [illegible] circulus qui describitur [illegible]
polum. Dicit ergo primo non [illegible]
[illegible] duos tropicos scilicet
tropicum solstitii hiemalis et tropicum
solstitii estivalis [illegible]
et dicitur tropicus quia cum sol [illegible]
describit in maxima sui declinatione
[illegible] ad aquilonem. Et
non tropica sunt duo circuli paralleli
et dicuntur [illegible] paralleli quia [illegible]
[illegible] partes [illegible] partes
[illegible] et sunt circuli imaginati in
celo non habentes aliquam magnitudinem. Et
dicitur in littera qui ultimo describitur a sole
quia sol describit tot circulos quot sunt
gradus in zodiaco [illegible] ultimo
describit ipsum circulum scilicet tropicum esti-
valem sed descendendo tunc ultimo descri-
bit tropicum hiemalem. Et non ergo
tropicus estivalis non est totalis circulus
[illegible] sed fit [illegible] quando sol est
in primo puncto cancri tunc [illegible]
[illegible] et 2o die [illegible]
[illegible] tunc descendit per distantiam 10
minutorum. 2o non sit circulus [illegible]
2o similiter dicendum est de tropico hiema-
li [illegible] quando sol est in primo puncto capri-
corni 2a die vadit [illegible]
[illegible] 10 minutorum [illegible]

Cum autem zodiacus declinat
declinat ab aquilone et polus

2a declinat a polo mundi [illegible] 1a

movetur octava sphera et zodiacus qui est pars octave sphere movetur super axem mundi et polos zodiaci movebitur circa polum mundi. Iste circulus quem describit polus zodiaci circa polum mundi arcticum dicitur circulus arcticus. Ille vero circulus quem describit alter polus zodiaci circa polum mundi antarcticum dicitur circulus antarcticus.

Iuxta partem illam magister ponit notabile quo alios duos circulos minores scilicet circulum arcticum et antarcticum concludit. Secundo in quo magister probat conclusionem quod recessus zodiaci ab equinoctiali quantus recessus poli zodiaci prius ex concludit recessus in respectu ad polum mundi quia declinatio circuli a circulo distat ad declinationem et polus a polo erga sic distat et [illegible] 23 gradus [illegible] minutis. Nota quod magister intendit quod ad motum octave sphere movetur quecumque circulus pars sphere. Ergo ad motum zodiaci qui est pars octave sphere movetur et poli zodiaci et in movendo describunt quosdam circulos et isti tunc sic vocantur [illegible] quia polus zodiaci movetur circa polum mundi arcticum describit dictum circulum arcticum. Ubi autem movetur circa polum mundi antarcticum describit dictum circulum antarcticum. Nota quod isti duo circuli causantur ex motu zodiaci secundum ipsum [illegible] motu [illegible] pullulantes causantur motu octave sphere et [illegible] eius admisso et [illegible] motu planetarum [illegible] sub zodiaco [illegible] in [illegible] consonantiis in [illegible]

Constat ergo quod maxima solis declinatio tanta est distantia poli mundi ad polum zodiaci et sic patet similiter de coluro distinguente solstitia quod transit per polos mundi et per polos zodiaci cadit in [illegible] et considera et [illegible] sunt equales [illegible] huius coluri quod est ab equinoctiali usque ad [illegible] que est apud punctum cancri usque ad polum zodiaci ergo absolute equalibus dempto communi arcu qui est a primo puncto cancri usque ad polum mundi residua erunt equalia scilicet maxima solis declinatio et distantia poli mundi ad polum zodiaci.

[illegible] iuxta partem magister ponit quasdam [illegible] illorum circulorum et [illegible] in [illegible] pot distantiam polorum mundi et polorum zodiaci esse maxime equalem declinationi solis. Secundo [illegible] concludit [illegible] utrumque [illegible] circulum arcticum ad maximam solis declinationem. Zodiaci ponit [illegible] parallelis et [illegible] zonis [illegible] describit [illegible] [illegible] sicut [illegible] equinoctialis [illegible] [illegible] singulis [illegible] circulis [illegible] 23 gradus [illegible] minutis [illegible] [illegible] sunt [illegible] distinctionem coluri distinguentis solstitia 2 distinguentis equinoctia. Nota [illegible] demonstratio [illegible] procedens [illegible] et [illegible] et de polo mundi [illegible] manifeste patet per [illegible]. Nota [illegible] quam autori [illegible] demonstrationem [illegible] colurum solstitiale et non equinoctiale cum colurus [illegible] sunt equales. Nota [illegible] demonstratio procedit maxime declinationis [illegible] solis et quia colurus solstitialis transit per polos zodiaci et maximas solis declinationes et ita non est equinoctialis. Nota quod [illegible] colurus [illegible] punctus cancri et equinoctiale [illegible] capricorni et equinoctialem equalia [illegible]

intercipitur inter polos mundi et zodiaci
ad ubi g a ut sit circumferencia … a
b c sit g a c equinoctialis sit g circulus
zodiaci h f cuius … sit g f tropicus
… mundi et … quod arcus k a
sit equalis arcui g b et … equalis
f d posito quod b et d sint poli mundi
et g f poli zodiaci sed k a est ma-
xima solis declinacio g b vero dista-
ncia poli zodiaci a polo mundi et isti
arcus sunt equales igitur … probacio
assumpti … duos circulos
coluros a b c scilicet qui a b …
et ab equinoctiali usque ad polos mundi
et aliorum … scilicet k g qui
est a capite capricorni usque ad polos
zodiaci dico ergo quod k g est equalis a b
quia sunt quarte … circu-
… scilicet a g et … re-
liqua scilicet a b et g b et k a est maxima
declinacio solis g b vero distancia
poli zodiaci a polo mundi et hoc est quod
fuit probandum … quod
f d sit equalis … b equalis sicut
ut patet intuenti figuram infra scriptam



Sic autem circulus articus 2m
Ptholomeum … distat
a polo mundi patet quod … pars
coluri que est inter … punctum
… et circulum articum fit
dupla est ad maximam solis
declinacionem … eiusdem
coluri qui intercipitur inter circulum
articum et polum mundi articum

qui est equalis maxime solis
declinacioni. Cum autem colurus
iste sicut quilibet circulus in spera
sit 360 graduum quarta eius
erit 90 graduum. Sic ergo ma-
xima solis declinacio 2m
Ptholomeum sit 24 graduum
51 minutorum et totidem graduum
sit arcus qui inter circulum articum
et polum mundi … sit
… quod … 48 gradus
… deficiunt usque 18
subtrahantur ergo 48 a 90 re-
siduum erit 42 graduum et tantus
quantus est arcus coluri qui est inter
… punctum … circulum
articum … sit patet quod arcus
iste sit duplus est ad maiorem
solis declinacionem singulis …
… quantitatem arcus coluri intercepti
inter circulum articum et maximam solis
declinacionem. Sed … ex
premissis concludit distanciam tropicorum
a circulis polorum que est 42 graduum
et 18 minutorum quod … arcus interceptus
inter alterutrum tropicorum et circulum
polorum sibi proximum est fere duplus
ad maximam solis declinacionem et ideo
… in quarta coluri distinguitur
… que est ab equinoctiali ad primum
punctum … ad polum articum et hoc sit
… totus colurus est 360 graduum …
quarta eius erit 90 graduum patet dividendo
360 in 4 partes. Sed quia maxima sol
declinacio est 24 graduum exceptis
9 minutis et similiter inter polum articum
et polum mundi arcus est 24 graduum
… 9 minutis et …
sunt equales … subtrahendo …

90 gradibus equales celi circum re
manebunt sed 2 gradus et 18 minuta
et centum et certis eclipticam intercipit
... per punctum cancri adimaginem
solis declinacionem et e contra ...
plus adimaginem solis declinacionem
Item non negat isto modo distin
guunt distanciam celorum / circulorum
ut ... facilior ...
... et intelligit sic
quod in corpore ... celi circulis
2 ... quam ... gradus
minus 9 minutorum distant debet
distare a polis mundi sed circulus
tropici estivalis ... articus
distat ... 2 gradus 18 minuta ...
... equinoctialis ... distat articus
... sed circulus articus a polo

Nota quod equinoctialis cum ...
celestibus imoribus dicuntur
paralelli quia eque distantes
uno quod ... primo distat
... 29 ... est
... sed quod
... duo similiter superficierum
... per ... distat
... et dicitur paralelli
equinoctialis paralellus estivalis
solsticii paralellus solsticii
yemalis paralellus articus
paralellus antarticus ... ponit
... paralellos ...
... et ... sic et ...
... sit ... in 20 ...
... paralelli ... et zo
... et plagis ... zonis con
... ubi ... quod ...
paralelli ... celi circuli
in ... dicuntur
paralelli ... circuli
... se vel tangunt se
... se tangunt se ... quod
... per ... distant
Item ... paralelli
... paralellus ... quod ... distant
... in terra positum Item

Item ... celi ... paralelli ...
... sicut in infinitum ...
... et ...
distantes ... superficies ...
et infiniti ... non ...
Item ... paralelli ...
... distancie ... totum
... ymaginari ... sol ...
... sed ... unum
paralellum ... sem...
...

Nota etiam quod paralelli im
... 2 tropica et paral
lus articus et paralellus antarticus
distinguunt celum in zonas
sive in regiones ... quarum
... zone ...
... sol ...
... et ... abusive
distinguunt ... plage
in terra dicte zone
... ...
... plage ...
... zona que ... dicitur inhabitabilis
... tropicos dicitur inhabitabilis
... solis ...
... plaga ...
... inhabi
tabilis ... sol
... ...
vero due zone que ...
circulo articus et circulo antartico
... inhabitabiles
sunt ... frigiditatem
quod sol ... remo
... similiter ... de plagis

terre illi directe suppositi. Illa autem duo zone scilicet una que est inter tropicum estivalem et circulum articum et illa que inter tropicum yemalem et circulum antarticum temperate sunt quia temperantur ex calliditate scilicet torride zone contente inter tropicos et frigiditate zonarum extremarum que sunt circa polos. Idem intellige de plagis terre illis directe suppositis. Iuxta pre[illegible] plana huius capituli auctor ponit quomodo circulos predictos comparat illos quatuor circulos ad [illegible] et similiter plagas et terras in [illegible] plagarum et ita fuit [illegible] distinguit quinque zonas [illegible] et ut distinctionem zonarum in celo distinguit plagas terre ibi terre tot idem plage zone ostendit quomodo plagas habitabiles quomodo vero inhabitabiles. Circa istam zonam usque ad finem capituli [illegible] primo capitulo patet quod tota spera celestis dividitur in quinque partes que dicuntur zone sic terre consequenter dividi in quinque partes directe [illegible] zonis suppositis et ille partes dicuntur plage. Circa secundum [illegible] partes terre [illegible] equales [illegible] parallele [illegible] quinque zonas [illegible] ut dictum est sic terre et plage terre directe illis zonis supposite. Circa tertium prima zona [illegible] a polo artico ad circulum articum secunda a circulo artico ad tropicum estivalem tertia a tropico estivali ad tropicum yemalem quarta a tropico yemali ad circulum antarticum quinta a circulo antartico ad polum antarticum. Circa quartum ille due zone [illegible] distantes [illegible] et [illegible] quia plus polus distat et minus [illegible] solis et [illegible] zona que intercipitur inter ambos tropicos est [illegible] caliditate quia sol discurrit semper inter illos duos tropicos in quo est

assignandum spatium terre in ista zona in quo sol in [illegible] [illegible] superfluit [illegible] quod sol numquam ultra [illegible] zonam [illegible] patet quia numquam ultra [illegible] tropicum cancri ut terre [illegible] tropicum capricorni sed [illegible] numquam ultra tropicum capricorni. Sed [illegible] alie due zone [illegible] [illegible] [illegible] artico alia circulo antartico plus distant a via solis ideo sunt inhabitabiles propter frigiditatem et inhabitabiles et terre plage [illegible] terre illis directe supposite. Circa quintum [illegible] [illegible] [illegible] zonarum [illegible] [illegible] [illegible] et ut [illegible] plagas [illegible] solis [illegible] [illegible] et distantia [illegible] [illegible] [illegible] zone et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in celo correspondet 100 stadia [illegible] plaga terre zone supposita [illegible] [illegible] stadiorum patet [illegible] [illegible] 100 [illegible] secunda plaga [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] plagarum [illegible] [illegible] linea [illegible] [illegible] [illegible] a polo artico ad circulum [illegible] [illegible] secunda plaga [illegible] [illegible] zone in celo sunt duplices [illegible] habitabiles et inhabitabiles [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad [illegible] zonam [illegible] et similiter plage et [illegible] inhabitabiles [illegible] [illegible] zona celi et plaga terre [illegible] [illegible] [illegible] [illegible] [illegible] in torrida zona [illegible] [illegible] torrida [illegible] [illegible] [illegible] calorem sol [illegible] plagam terre [illegible] zone [illegible]. Alie autem zone [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] zona et plaga [illegible] astrologorum [illegible] [illegible] [illegible] ista plaga [illegible] inhabitabilis [illegible] [illegible] climata [illegible] [illegible] appellatur. [illegible] capitulum [illegible]

Signorum autem ortus et occasus dupliciter accipitur

quia contrario ad poetas et contra
ad astrologos. Est ergo ortus
et occasus signorum quo ad poe-
tas triplex scilicet cosmicus, cronicus
et eliacus. Similiter et occasus.
Cosmicus enim ortus sive mundanus
est cum signum vel stella super ori-
zontem ex parte orientis ascendit de die
ascendit cum signo aliquo quod
[illegible] de die [illegible] signa
[illegible] auctoritate signum
[illegible] cosmice [illegible] quo
[illegible] quo sol mane oritur et [illegible]
ortus [illegible] et [illegible]
[illegible] et [illegible]
[illegible] ubi dicit seminandi
[illegible] et milii in [illegible] sole
[illegible] in thauro sic candidus
[illegible] appetit cum cornibus
[illegible]
[illegible] occidit [illegible]
[illegible] est [illegible]
in quo [illegible] ortum et occasum
[illegible] signorum et [illegible] noctium
et dierum et [illegible] climatum mundi
et [illegible] in [illegible] partes [illegible]
[illegible] ortum et
occasum signorum [illegible]
[illegible] noctium et dierum
[illegible] climatum mundi [illegible]
[illegible] sol [illegible]
[illegible] imaginem [illegible]
[illegible] partes [illegible]

[illegible] in [illegible] partes [illegible]
[illegible] ortum et occasum [illegible]
[illegible] in [illegible]
[illegible] ortum et occasum signorum [illegible]
astronomi [illegible]
[illegible] ortum et occasum signorum [illegible]
[illegible] poetas et [illegible] astrologos [illegible]
poeta [illegible] similiter [illegible]
et [illegible] ortus et occasus in poetis
[illegible] ortus
in poetis [illegible] cosmicus [illegible]
[illegible] latine [illegible] sit
[illegible] in [illegible] vero [illegible]
et [illegible] latine in
[illegible] in quo [illegible]
temporales [illegible] vero eliacus [illegible]
ab eliyos quod est sol [illegible] fit in
[illegible] ad solem. [illegible] cosmicus
[illegible] ortum cosmi-
cum [illegible] occasum cosmicum [illegible]
[illegible] est
ortus cosmicus [illegible]
[illegible] signorum [illegible] sole [illegible]
parte orientis super nostrum orizontem et [illegible]
est continua successio signorum. [illegible]
[illegible] in quorum die [illegible] signa
oriuntur [illegible] signa [illegible] supra
nostrum orizontem et sex infra. [illegible] est
ortus cosmicus [illegible] et est ortus illius
signi in quo sol est et hodie [illegible] in illa
[illegible] cosmice sole [illegible]
in [illegible] et eodem modo
[illegible] occasu cosmico [illegible] signi oppositi
[illegible] aliquod mane cosmice [illegible] signum
[illegible] occidit cosmice [illegible]
oppositum [illegible] in
[illegible] georgica [illegible]
[illegible] latine et [illegible]
[illegible] latine [illegible] dicit
[illegible] et milii
[illegible] seminandi tempus [illegible]
[illegible] sole in thauro [illegible] sol [illegible]
[illegible] sole in thauro [illegible] cosmice [illegible]
mane [illegible] que [illegible]
[illegible] appetit [illegible] que [illegible]
[illegible] tempus [illegible]
[illegible] signum [illegible]
sic candidus thaurus [illegible] signum [illegible]
appetit [illegible] sol [illegible] cum
[illegible] cornibus [illegible]
globatus [illegible]
[illegible]
[illegible] soli occidit [illegible]
[illegible] parte solis. [illegible] dicit
[illegible] quod stella [illegible]
[illegible] et [illegible] intelligitur [illegible]
occidit cosmice [illegible] cosmice
et in tali [illegible]

[illegible] stella vel ymago cum Scorpione et de illa intelligitur [illegible]

Occasus vero cosmicus est hoc modo sicut quando sol oritur cum aliquo signo cum signum oppositum occidit cosmice et de hoc occasu dicitur in Georgicis ubi docet serendo frumenti in fine autumpni sole existente in Scorpione qui tunc oritur cum sole. Et honorum ubi sunt Pleiades occidit sic

Ante tibi Eoe Atlantides abscondantur debita quam sulcis committas semina

[illegible]

Cronicus ortus sive temporalis est quando stella vel signum post solis occasum supra orizontem ex parte orientis denotte ascendit et dicitur temporalis ortus quia tempore [illegible]

nascitur cum solis occasu. De hoc ortu dicitur in Ovidio de Ponto ubi dicit iterum modum sui exilii dicens quatuor autumpnos Pleiades orta facit [illegible] quatuor annos transisse postquam fuit missus in exilium. Sed Virgilius vult in autumpno Pleiades occidere quando [illegible] sanguis est quod [illegible] occidunt cosmice. [illegible] Ovidius [illegible] [illegible] differentia quod cosmicus ortus est [illegible] matutinus. Cronicus vero ortus est vespertinus [illegible] occasus [illegible] Ovidius [illegible] cum nox [illegible] Sagittarius

[illegible]

Virgilius Georgicorum: Ante tibi eoe Atlantides
et sic fit respectu temporis matutini. Apud
[illegible] descendit signum quod cosmice sub
[illegible] subdit quod occasus cosmicus fit
[illegible] signi oppositi. Cum modo in parte la-
[illegible] [illegible] quod ortus cosmicus sunt
temporales et quando cosmice oriens signum
vel stella ascendit super simul super orizontem
orientem [illegible] in parte [illegible] quod
cosmicus occasus est [illegible] oppositus
[illegible]. Apud Lucanum et [illegible] tessa-
licas et [illegible] applicatur
[illegible] quando sol est in signo [illegible]
[illegible] nox [illegible] vigebat [illegible]
bat [illegible] ad [illegible] tessalicas sagittas
id est signum sagittarii. Alio sic exponitur
[illegible] bello [illegible]
[illegible] nox vigebat [illegible]
[illegible] tessalicas sagittas id est signum sa-
gittarii. Vel pro tessalicas sagittas in-
telligit signum sagittarii [illegible]
[illegible] tessalicus fuit
tessalie et [illegible] sagittandi
[illegible] sagittas [illegible]
fuit [illegible]

Eliacus ortus sunt solaris quando
signum vel stella potest videri propter elon-
gationem solis a radiis que prius
videri non poterat propter solis pro-
pinquitatem [illegible] [illegible]
in fastis sic. Nam semita obliqua
subsedit aquarius vena [illegible]
in georgicis: Gnosia que ardentis
ascendit stella corone que
in scorpione [illegible] videri
dum sol est in scorpione. Vel
[illegible] eliacus est quando sol ad signum
accedit et id [illegible] videri
permittit [illegible] [illegible] pre
[illegible] [illegible] [illegible]

[illegible] [illegible] occidit [illegible]
[illegible] [illegible] [illegible]
signo [illegible] [illegible] eliaca [illegible]
in [illegible] [illegible] [illegible]
eliaca in [illegible] [illegible]
[illegible] sententia [illegible] [illegible]
[illegible] ortus est quando signum vel stella
occultatur a sole [illegible] [illegible]
[illegible] signo et [illegible] [illegible]
ortum eliace. [illegible] [illegible]
que [illegible] [illegible] [illegible]
[illegible] videri non potest [illegible] quam sol
elongatur [illegible] sic quod luna [illegible]
[illegible] luna [illegible] ortum eliace [illegible]
[illegible] ortus [illegible]
[illegible] Ovidius in fastis [illegible]
[illegible] et [illegible] [illegible]
semita obliqua et ibi Ovidius loquitur
[illegible] tempore quando sol velociter [illegible]
aquarium sic quod aquarius videri
[illegible] [illegible] videri non potest [illegible]
[illegible] [illegible] aquarius [illegible]
[illegible] signum aquarius subsedit a sole
[illegible] ad obliqua vena [illegible]
[illegible] [illegible] [illegible] apparet [illegible]
signum aquarius [illegible]
[illegible] [illegible] [illegible]
aquarius [illegible] signum [illegible] leone
[illegible] [illegible] [illegible] [illegible]
[illegible] in ortu suo [illegible] in ipso
[illegible] [illegible] vena obliqua
[illegible] [illegible] usque tropicum
[illegible] obliqua [illegible] [illegible]
[illegible] [illegible] [illegible] Gnosia quod [illegible]
[illegible] Virgilius in georgicis: Gnosia quod ardentis
[illegible] [illegible] Virgilius ubi loquitur [illegible]
[illegible] et dicit quod [illegible] fieri in fine
autumni [illegible] sol est in scorpione [illegible]
constellatio que vocatur stella corone non
potest videri propter radios solis sed [illegible] sole
[illegible] [illegible] [illegible] videtur et [illegible] [illegible]
sic quod [illegible] Gnosia [illegible] una stella [illegible]
[illegible] [illegible] [illegible] constellacionis [illegible] apparet
dum sol descendit [illegible] [illegible] [illegible]
[illegible] scorpionem est [illegible] constellacio
[illegible] [illegible] corone et ibi [illegible]
et una stella que [illegible] [illegible] est [illegible]
[illegible] in medio [illegible] stellarum [illegible] est una stel-
la magis [illegible] et [illegible] [illegible] poete [illegible]
Gnosia et [illegible] quod poete dicunt quandam
reginam [illegible] habuisse [illegible] [illegible]
[illegible] [illegible] et [illegible] signum scorpionis [illegible]
[illegible] et [illegible] signum [illegible] [illegible] [illegible]
[illegible] coronam [illegible] [illegible] [illegible]
est [illegible] [illegible] signum [illegible] [illegible]
[illegible] ita quod videri non potest [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] sol est in [illegible] ubi est quedam stella

[illegible]

Sequitur de ortu et occasu signorum qui sunt astronomici. Ad intelligendum quod ortus et occasus est cum signum intelligitur quod est quando certam partem equinoctialis oritur que sit cum isto signo in oriente id est ascendens supra orizontem vel certam partem equinoctialis occidit que occidit cum isto signo occidente id est descendente infra orizontem. Signum autem recte oriri dicitur cum quo maior pars equinoctialis oritur. Oblique vero quo minor pars equinoctialis oritur. Similiter intelligendum est de occasu.

[illegible]

Et sciendum quod in spera recta per quartas zodiaci distinctas a quatuor cardinalibus scilicet a duobus solsticialibus et duobus equinoctialibus adequantur suis ascensionibus id est quantum tempore oritur quarta zodiaci in suo ortu tanto tempore equinoctialis illi commensurabilis oritur. Partes autem istarum quartarum valent nec sunt equales ascensiones ut patet

[illegible]

ascensioni vel alicui parti equinoctialis medietas
est alicuius temporis in tempore consimilis in suo
ortu circulum punctis equinoctialis illi quemadmodum
etiam consimilis in suo ortu ubi ubi quia ipsi
ortus qui esse dicuntur dicuntur adequari
ascensionibus sic quod venit illorum arcuum
plus consimilis tempore in ortu suo quam
alii et circulo zodiaci inchoante equinoctialis
punctis dicuntur adequari inter equinoctii
alius sibi comparabilis in spera recta quia
consumunt equale tempus in suo ortu quia
sicut circulo zodiaci quod est ab oriente usque
ad cancrum in spera recta consimilis duabus horis
nos in suo ortu sic et circulo equinoctialis
sibi comparabiles in eisdem duabus horis
pertransit. Item hoc est dicitur circulo co-
mparabiles qui ab eodem puncto alicuius
tempus incipit et eodem puncto vel eodem tempore
terminatur ubicumque quia circulo zodiaci in
[illegible] a puncto tali distinguentis
[illegible] equinoctia et terminatur in puncto tali
distinguentes solsticia et similiter circulo
equinoctialis ideo dicuntur comparabiles. Item
nota alia signa a puncto tropico et equi-
noctiali proportionabiliter suas ascensiones
[illegible] habent in alia et alia quia distante
signum est propinquius puncto tropico
distato ascensionem habet maiorem et distante
plus distat a puncto tropico distante habet
minorem. Et ex hoc sequitur conclusio quod duo
duo signa equaliter propinqua puncto tropico equa-
les habent ascensiones. Exemplum ut dicitur
sequitur quod cancer et capricornus equales habent
ascensiones similiter leo cum aquario
et de aliis.

Est autem regula quibus duo
arcus zodiaci equales et equa-
liter distantes ab aliquo quatuor
punctorum predictorum equales
habent ascensiones et hoc est quod dicit
Lucanus loquens de perustibilitate
in libiam versus equinoctialem.
Non obliqua meant nec thauro
rectior exit scorpius. Aut aries
donat sua tempora libre aut
astrea iubet lentos descendere pisces.
Par geminis chiron et idem quod carcinos
ardens humidus egoceros nec
plus leo tollitur urna.

Hec dicit Lucanus quod existentibus sub
equinoctiali signa opposita equales habent
ortus et occasus. Ideo omnium
signorum per hunc numerum fecit.
Est aries thaurus scorpio gemini cap-
cancer leo aquarius pisces virgo. [illegible] in
[illegible] regulam
de ascensu signorum et ita fit. Nunc ponitur
regula. Secundo adducit lucanum [illegible] opposita
signorum. Tercia ibi et hoc est quod dicit lucanus.
Quarta ibi opposita aut. Et est intentio hic ista
quod quibus duo arcus equaliter distantes ab aliquo
quatuor punctorum equinoctialium vel solsticialium
habent equales ascensiones. Et sequitur quod quod
sequitur quod signa opposita habent equales ascen-
siones secundum quod vult lucanus loquens de perussi-
bilitate in libiam et hic opposita signorum
habent [illegible] in [illegible] ista aries thaurus etc.
Secundo pro intellectu hic auctor dicit quod quibus arcus
equaliter distantes equales habent ascensiones
ubi vult dicere auctor quod si capiantur circulo zo-
diaci vel arcus oppositi sive cum istis
duobus arcubus pertransiunt gradus equi-
noctialis sub eodem numero ita quod gradus oriuntur
cum uno tot etiam oriuntur cum alio et hoc
incipiendo cum gemini contactu equinoctialis
cum coluro predicto. Alias cum isto et ista.
Sicut ubicumque ut si arcus sit acceptus a cancro
usque ad finem leonis sive incipiat etiam cum
gemini ab equinoctiali ab inicio circulo sed a puncto
contactus equinoctialis cum coluro solsticio-
nali et in opposito puncto cum gradu longitudi-
nis cum arcu opposita et ita etiam est intelligendum cum
aliis duobus punctis secundum ubicumque capiatur
prima facies cancri et prima facies capricorni
sive cum istis duabus faciebus pertranseunt gradus
equales sic consimiliter de secunda et tercia facie. Contra
cum prima cum facie pertranseunt 10 gradus
43 minuta. Cum in secunda facie 21 gradus
39 minuta. Cum tercia facie 31 gradus et 13
minuta et similiter de omnibus aliis signis
oppositis ut patet in tabula ascensionum facierum
signorum et quia facies graduum libre signorum
sunt posito in tabula sed arcus oppositi
et iste facies habent equales ascensiones ut patet.
Ex hoc sequitur conclusio illam scilicet hoc verum.
Item dicit signa opposita equales habent ascen-
siones. Racio quia signa opposita sub arcu
oppositi equaliter distantes ab aliquo pe-
torum equinoctialium in terra vel gradu tropicorum
predictorum. Item nota exposicionem versuum patet
quia per hoc intelligitur etiam [illegible].
Item nota hoc dicit de libia. Unde libia est quedam
regio circa equinoctialem in qua sunt insignes
fratres in columnam ... nota signum signorum dicitur
hesperia. Racio quia fabulose legitur quod hesperie
sunt filie regis hesperi que rapte sunt
in celum et facta sunt unum de 12 signis.

[illegible]

Tabula ascensionum facierum [illegible] signorum [illegible]

		Facies prima		Facies 2a		Facies 3a	
Caput signi		gradus	minuta	gradus	minuta	gradus	minuta
Aries	libra	9	11	18	29	21	49
Thaurus	scorpio	31	34	41	31	71	41
Gemini	sagittarius	68	21	19	1	80	0
Cancer	capricornus	10	73	21	39	32	13
Leo	aquarius	42	29	72	26	62	1
Virgo	pisces	11	32	80	49	90	0

Et nondum probo [illegible]

Et nota quod non valet argumentum isti duo arcus sunt equales et simul incipiunt oriri ergo plures ascensiones oriuntur de uno arcu quam de reliquo proportionaliter tempus ergo ascensiones [illegible]. Consequentia sequitur argumentacio manifesta in predictis [illegible]. Si enim summa arcus zodiaci que est a principio arietis usque in finem geminorum plures ascensiones oriuntur de arcu zodiaci quam de arcu equinoctialis sibi commensurabili et tamen iste due arcus simul oriuntur. Idem intellige de arcu zodiaci que est a principio cancri usque ad finem sagittarii. Item si summa arcus zodiaci que est a principio cancri usque ad finem virginis plures ascensiones oriuntur de arcu equinoctialis quam de arcu zodiaci commensurabili et tamen iste due arcus simul oriuntur.

Idem intellige de arcu zodiaci que est a principio libre (?) capricorni usque in finem piscium. Consequentia patet cum [illegible] removet [illegible] translacionem et [illegible] est ista [illegible]. Argumentacio non valet. Isti duo arcus sunt equales et incipiunt simul oriri continue et plures ascensiones oriuntur de uno quam de reliquo ergo unus prius oritur quam reliquus, [illegible] et [illegible] instancia [illegible] manifeste patet ex predictis. Et nota primo quod [illegible] quod [illegible] equator [illegible] equatur [illegible] cardinalibus adequatur suis ascensionibus et tamen partes illarum [illegible] continue valent ita quod quandoque plures ascensiones de una quam de alia partem quandoque vero e converso, [illegible] instancia autem removet [illegible] instanciam. [illegible] Quamvis si essent duo spacia equalia mobilia scilicet a. b. et inciperent pertransire illa duo spacia in eodem instanti ita quod a continue plus pertransisset de spacio quam b. Unde arguitur ista duo spacia sunt equalia et a. b. mobilia incipiunt simul pertransire et continue pertransit maior pars de uno quam de alio ergo [illegible] pertransit quam [illegible] quia non est [illegible]. [illegible] Et videtur quod instancia autem [illegible] quod non est [illegible] sed [illegible]. [illegible] et [illegible] quod de [illegible] ascensiones plures de uno quam de reliquo. [illegible] quod [illegible] capitis [illegible] ut determinat [illegible] portionis. [illegible] quod est [illegible] que est ascensiones [illegible] quam sibi commensurabilis. Alio modo [illegible] ut determinat [illegible] maior [illegible] est [illegible] et [illegible] quod [illegible] maior [illegible] quam dicta [illegible] instancia [illegible] non procedit [illegible] [illegible] sunt duo mobilia moveantur. [illegible] si vero [illegible] [illegible] que est a principio cancri usque ad finem piscium [illegible] equinoctialis commensurabilibus [illegible] portione [illegible] quod est [illegible] et [illegible] videntur [illegible] in tabula [illegible]. Unde alii volentes [illegible] dicunt [illegible] illas [illegible] scilicet circuli equinoctialis et zodiaci sibi correspondentium [illegible] equaliter moventur et oriuntur [illegible] in [illegible] ad aspectum hominum [illegible] aliqua ascensiones [illegible] de una

quod dicta licet mora aliqua quo ad
tempus in quo fuit sub ecliptica. Ex hoc vero ad
consideracionem rectitudinem et obliquitatem
ortus signorum punctorum et signorum est quod sunt
inter quatuor puncta scilicet duo tropica et duo
equinoctialia sed licet ordinari meridianum
recte sit quod secat duo puncta orthogonaliter
ut videtur ascendere signum punctum medium
cum per quem transit zodiacus et aliquorum
punctorum in meridiano per quem transit equi-
noctialis sed quanto magis [illegible] est [illegible]
de tanto obliquius oritur signum de tanto
vero minor de tanto oritur rectius.
Unde hoc obliquius oritur cancer virgo
leone et gemini rectius sicut thaurus
et thaurus rectius quod aries sed capricornus

In spera autem obliqua sive
declina due medietates zodia-
ci adequantur suis ascensionibus.
Medietates dico que incipiunt
a duobus punctis equinoctialibus oppositis
[illegible] medietatis zodiaci que est a principio
arietis usque ad finem virginis oritur
cum medietate equinoctialis sibi conforma-
bili. Similiter alia pars zodiaci cum
reliqua parte equinoctialis. Partes autem
illarum medietatum variantur in
suis ascensionibus quia in illa medi-
etate zodiaci que est a principio arie-
tis usque in finem virginis plus maior
pars oritur de zodiaco quam de equinocti-
ali sibi conformabili et tamen iste medi-
etates simul oriuntur. Econtrario
contingit in reliqua medietate zodia-
ci que est a principio libre usque in finem
piscium quia ibi minor pars oritur de equi-
noctiali quam de zodiaco et tamen iste due
medietates simul oriuntur vel plus
ascendit de equinoctiali cum parte que
est a principio capricorni usque in finem

sagittarii quam cum parte que est a principio
capricorni usque in finem piscium.
Unde hic patet in spera manifesta [illegible]
argumentum [illegible]
Et sciendum quod [illegible] argumentum
[illegible]
in signorum secundum [illegible]
[illegible] consequitur [illegible]
reliqua et dimidium in [illegible]
ponit quandam regulam sine [illegible] me-
dietates zodiaci [illegible]
ponit secundum [illegible] Ibi. [illegible]
[illegible] et [illegible] re-
gulam ibi. Ex hoc patet quod duo arcus equales
[illegible] infert [illegible] circulum sine [illegible]
[illegible] ibi. Sic patet [illegible]
[illegible] dividitur in duas partes [illegible]
[illegible] secundum duas partes [illegible]
illarum medietatum variatur. Intendit hic
est ista in spera obliqua medietatum zodiaci
inchoate a duobus punctis equinoctialibus adequantur
suis ascensionibus et tamen partes illarum medi-
etatum continue variantur ita quod cum ista
medietate que est ab ariete usque ad libram
[illegible] pars de zodiaco quam de equinocti-
ali in aliam medietatem contingit [illegible]
[illegible] autoris [illegible]
secundum [illegible] vale. [illegible]
[illegible] medietates [illegible] zodiaci
in obliqua spera adequantur suis ascensionibus
[illegible] que [illegible] est obliquus et
declinis ita quod [illegible] polus elevatur [illegible]
et alius deprimitur [illegible] porta [illegible] de
zodiaco [illegible] est porta [illegible] equinoctiali
et [illegible] porta [illegible] equinoctiali [illegible]
[illegible] porta est [illegible] zodiaci [illegible] fit
in plus et secundum minus [illegible] quod polus
plus elevatur vel minus [illegible] diversitate
latitudinum diversificantur iste ascensiones
ut patet in tabulis subscriptis. Item nota dicit
auctor in [illegible] quod partes illarum medietatum
continue variantur [illegible] in medietate que
est ab ariete usque in finem virginis oritur
maior pars de zodiaco quam de equinoctiali
et in alia medietate [illegible] contingit [illegible]
[illegible] latitudo est 50 graduum [illegible]
[illegible] oriuntur [illegible] gradus et [illegible]
minuta [illegible]
et [illegible] oriuntur 3 gradus et
[illegible] minuta et in [illegible] quod zodiacus [illegible]
[illegible] plus [illegible]
de zodiaco est [illegible] ut patet in tabula
infra scripta. Item [illegible]
[illegible]
[illegible] partes [illegible]
[illegible] quod porta [illegible] medietate

[illegible]

... vult

Tabula ascensionum [illegible] per medium 90 gradus

prima facies		2 facies		facies tertia		
gradus	minuta	gradus	minuta	gradus	minuta	
4	12	8	31	13	6	Ariete
18	9	23	20	30	20	Tauro
30	73	46	39	46	72	Geminis
68	27	81	11	94	46	Cancro
180	48	123	1	131	20	Leo
1?1	71	164	70	180	0	Virgo

Ex predictis patet quod dies naturales sunt inequales est enim dies naturalis revolutio equinoctialis cum tanta parte quanta sol interim pertransit motu proprio contra firmamentum sed tamen ascensiones arcuum illorum sunt inequales ut patet ex predicta tam in spera recta quam obliqua et penes additamenta illorum ascensionum considerantur dies naturales et nisi illi erunt inequales in spera recta propter unicam causam scilicet propter obliquitatem zodiaci. In spera vero obliqua duabus de causis scilicet propter obliquitatem zodiaci et obliquitatem orizontis. Tertia solet assignari causa excentricitas circuli.

Causa ista per auctorem infertur declarationem. Secundo facit hic secundo reddit causam sui dicti in spera recta propter unicam causam. Quoniam vult ...

Ex quo predictis patet quod dies naturales sunt inequales et causa est quia ascensiones graduum sunt inequales quia dies naturalis nichil aliud est nisi revolutio equinoctialis cum tanta parte quanta pertransit sol motu proprio contra firmamentum. Et sciendum quod istius est duplex causa in spera recta scilicet obliquitas zodiaci et

Tabula zodiaci ad latitudinem

	prima facies		2 facies		facies 3	
	gradus	minuta	gradus	minuta	gradus	minuta
Libra	14	10	28	23	42	40
Scorpio	46	79	11	12	81	14
Sagittario	98	49	30	37	23	8
Capricorno	133	21	144	1	149	40
Aquario	176	10	161	71	166	74
Pisces	111	29	114	44	18	0

solis sed in obliqua addit obliquitatis orizontis. Nota primo correlarium conclusio illa dies naturales sunt inequales. Illam conclusionem probat auctor premittendo diffinitionem diei que talis est dies naturalis est revolutio equinoctialis cum tanta parte quanta pertransit sol motu proprio contra firmamentum qua diffinitione premissa demonstrat suam conclusionem sic. Eo quod dies naturalis est revolutio totius equinoctialis et sibi addit quandoque maior pars quandoque minor sequitur necessario quod sunt inequales quia quibuslibet equalibus inequalia addantur producta erunt inequalia. Capitis igitur duabus revolutionibus equinoctialis que inter se sunt equales quibus addantur inequalia scilicet addendo revolutioni prime ascensionem correspondentem motui solis et primo gradui arietis addatur et alteri revolutioni ascensionem correspondentem motui solis in primo gradu cancri. Notandum quod iste ascensiones sunt inequales et producta erunt inequalia. Ideo producta sunt dies naturales. Igitur dies naturales sunt inequalia. Ex isto sequitur correlarium quod in spera recta sole existente in gradu zodiaci incipiente ab aliquo punctorum solsticialium dies sunt longiores quam ipso existente in aliis signis. Causa est quia obliquis quasi equalibus addantur

inequalis tunc ad eam additur quantitas
temporis eius minus illud aut tantum additur
et minus fit minus similiter in sphaera
obliqua dies naturales sunt inequales
quia in sphaera recta [illegible] quod ibi est
maior differentia ascensionis quam recta
Auctor ponit tres causas inequalitatis
dierum naturalium. Ratio quia triplex est
causa diversitatis ascensionis signorum
[illegible] est causa diversitatis dierum
naturalium quia sicut [illegible] procedit a causa
sic est causa causati [illegible] patet
natura prima est obliquitas zodiaci facit
enim inequalitatem ascensionum [illegible]
sphaera zodiacus declinat versus partem [illegible]
polum articum et australem usque polum ant-
articum tunc in ascendendo [illegible] quandoque
potius plus quandoque minus. Secunda
eccentricitas solis est causa diversitatis
sed tamen eccentricitas solis non est causa diver-
sitatis ascensionis signorum quia talis
eccentricitas non plus vel minus [illegible]
mutat ipsum zodiacum sed bene est causa
diversitatis dierum naturalium quia sol
per eccentricitatem suam orbis inequaliter
movetur. Eccentricitas [illegible] est secunda
causa et iste due cause sunt in utraque
[illegible] sed in obliqua [illegible] tertia
causa que est declinatio [illegible]
[illegible] corollarie quod [illegible] maior
declinatio tanto dierum naturalium maior
inequalitas et talis inequalitas non est
sensibilis [illegible] et ergo apud vul-
gares non est reputabilis [illegible]

Tabula dierum facierum [illegible] ascen-
siones [illegible] in sphaera obliqua [illegible]

Nomina signorum	prima facies	2a facies	3a
Libra	7	10	17
Sagittarius	19	24	28
Sagittarius	30	32	33
Capricornus	33	33	21
Aquarius	24	19	14
Pisces	10	7	0

Notandum est quod sol tendens
a primo puncto capricorni per-
tem usque ad primum punctum
cancri raptu firmamenti de-
scribit 182 parallelos qui non
paralleli et si non sunt [illegible]
li sed [illegible] tamen non sit sensi-
bilis error [illegible] non
[illegible] tales circuli appellantur
de [illegible] circulorum quorum sunt
duo tropici et unus equi-
noctialis. Item eosdem dictos
circulos describit sol raptu fir-
mamenti descendens a primo puncto
cancri per libram usque ad
primum punctum capricorni et isti
circuli dierum naturalium circuli
appellantur. Arcus autem qui
sunt super orizontem sunt arcus
dierum artificialium. Arcus vero
qui sunt sub orizonte sunt
arcus noctium in sphaera igi-
tur recta cum orizon [illegible]
et [illegible] mundi dividit
omnes istos circulos in partes
equales [illegible] tali [illegible] arcus
dierum equales sunt arcus noctium
[illegible] sub equinoctiali
[illegible] patet quod [illegible] sub equi-
noctiali in quacumque parte
firmamenti sit sol semper est equi-
noctium. [illegible] quod [illegible] et
[illegible] firmamenti ortum et
occasum signorum [illegible] diversi-
tas dierum naturalium [illegible]
[illegible] de diversitate dierum et noctium
artificialium et dividitur in [illegible] partes [illegible]
[illegible] intentionem suam in [illegible]
[illegible] ibi in sphaera recta [illegible]
[illegible] est quod sol [illegible] a primo
puncto capricorni usque ad primum punctum cancri

describit 182 parallelos motu rapto
et licet non sint proprie paralleli quia non
sunt circuli perfecti sed gyrationes sed quia
non est magnus error in isto auctor
ipsos circulos appellat. Similiter sol descen
dit a capite cancri usque in initium capri
corni describit eosdem parallelos Et sub
dit circulus autem parallelorum qui sunt supra
orizontem dicuntur arcus dierum et qui sunt
infra orizontem dicuntur arcus noctis
Item sciendum quod orizon rectus dividit omnes
parallelos in duo equalia et noctes et dies
sunt equales semper sub equinoctiali
Secundo non in spera materiali solum sunt circuli
ex descriptis circuli scilicet equinoctialis et duo tro
pici et duo circuli polorum sed mox quamlibet
infinita possunt imaginari quibus relictis
noster solum curat illos quos sol gyra
do rapto firmamenti describit motu diurno
incipiendo a primo puncto capricorni per sex sig
na sequentia computando a festo lucie ad festum
viti et hoc sic facit centum duos parallelos
quod hoc tot dies contingunt sic quod sol
descendendo a primo puncto cancri per sex signa
sic usque ad finem sagittarii i. a festo viti
usque ad festum lucie computando iterum
tot parallelos facit inde tot dies dimitun
quod hoc duplicatum predictum scilicet 182
et resultat numerus scilicet 364 et tot sunt
dies in anno quorum secus est de bissextili
Item isti paralleli potius dicuntur gyri quam
circuli quia circulus facit suo processu per con
tinuorum contactum et gyri non sunt
isto modo quia in gyris unus finis non
tangit alium sed obumbrat alterum
et cum hoc sit in hoc scriptis error quo
modo est causa quod circuli vocantur Et secundo
isti paralleli singuli non distant ab invicem
equaliter et uniformiter quia isti qui sunt
circa tropicos ut circa cancrum et capricornum
distant parum et sunt quasi contigui
inter se et ista inequalitas distantie fiunt
propter obliquitatem signorum Et secundo circa speram
rectam in spera recta non minus ostendit
quod per quartam partem anni existentes sub equi
noctiali habent equalem diem nocti ratio
est quia orizon eorum vadit per polos mundi
et dividit omnes predictos parallelos per medium
sic quod in quolibet tempore tantum circuli ma
net ab orizonte ~~[illegible]~~ per noctem quantum
est supra orizontem per diem et equalitas
dierum et noctium fit ex equalitate divi
sionis circulorum et consequenter sequitur
equalitas revolutionum

In spera autem declivi orizon
obliquus solum dividit equi
noctialem in duas partes
equales unde quando sol est
in altero punctorum equinoctialium
sunt arcus diei ad equa
lem noctis et est equinocti
um in universa terra omnes
vero alios circulos dividit
orizon obliquus in partes in
equales ita quod in omnibus
circulis qui sunt ab equinoc
tiali usque ad tropicum cancri
et in ipso tropico cancri maior
est arcus diei quam
noctis i. arcus super orizo
ntem quam sub orizonte
unde in tota hac quando sol mo
vetur in primo dicto parallelo
usque ad finem geminis per
signa septentrionalia maio
rantur dies super noctes et
tanto plus quanto magis
accedit sol ad cancrum et econver
so scilicet de diebus et noctibus
dum sol est in signis au
stralibus sed in omnibus
aliis circulis quos sol descri
bit inter equinoctialem et tro
picum capricorni maior
est arcus sub orizonte quam
supra unde arcus diei est
minor quam noctis et e con
verso arcum minorantur

propinquiores tropico hye-
mali tanto magis minu-
antur dies | Consequenter parte an-
tea ter? presentium
inequalitatem dierum artificialium
in spera obliqua et dividitur in duas
partes. Primo facit hoc, 2o infert co-
rollarium ibi: Ex predictis in hac
dimissa. Continuo hic per desc-
ripcionem ista hic facit de diebus
conclusionibus. Prima est sole
existente in altero punctorum equi-
noctialium dies et noctes arti-
ficiales sunt equales. Ratio quia tunc
circulus diurnus est equalis circulo
noctis et est conclusio vel quia tunc
ex predictis sed circulus per ex orizon
intersecat equinoctialem in duas medietates
equales quarum una est super orizontem
et alia sub orizonte. Secunda conclu-
sio hic est ipsa sole existente in aliis
signis et in aliis partibus zodiaci
noctes et dies artificiales sunt inequa-
les. Ratio quia tunc circulus diurnus
est inequalis circulo noctis et conclusio
ista conclusio vel quia tunc sed circulus per
perceptum conclusionem sequitur quod quanto
est sol propinquior puncto solsticii estivalis
tanto plurior est dies artificialis
et quanto propinquior est puncto solsticii
yemalis tanto brevior est dies ar-
tificialis et nox plurior. Ratio
huius partis quia quanto propinquior
fuerit sol tanto arcus tantus? circuli
relinquitur super orizontem et tanto
minor in terra. Ratio 2e partis quia
quanto sol fuerit propinquior capricorno
tanto minor arcus relinquitur
super orizontem et maior inferius. Ex hoc
sequitur conclusio quanto orizon fuerit
declivior tanto dies in estate sunt
pluriores et in yeme breviores
ut autor post ea dicit in hac littera sequenti:
Unde intelligere quod si fuerint
duo circuli equales et equaliter distan-

tes ab equinoctiali ex diversis
partibus quantus est arcus diei in
uno tantus est arcus noctis in
alio. Ex quo sequitur quod si duo
dies naturales sumantur in anno
equaliter remoti ab alterutro equi-
noctiorum in oppositis partibus
quanta est dies artificialis unius tanta est
nox alterius et converso. Sed hoc est
quantum ad vulgi sensibilitatem in omnibus
sentibus (?) superior. Ratio cuius propter
cursum solis quod firmamentum in
obliquitate zodiaci verius dici-
tur | Consequenter parte autor infert
correlarium et dividitur in duas
partes. Primo facit hoc, 2o removet du-
bium ibi: sed hoc est ad vulgi sensibilitatem
Continua ad primam partem post ingressum
infert correlarium primum 2o ibi: Ex
quo sequitur. Continua ad secundam partem
intendens hic est ista: Si accipiuntur
duo circuli equaliter distantes ab equinoctiali
scilicet qui describuntur in oppositis signis
et oppositis gradibus tunc quantus est arcus
diurnus in uno tantus est arcus noctis
in reliquo. Ex quo sequitur ulterius corre-
larium quod si accipiuntur duo dies na-
turales equaliter distantes ab utroque punctorum
equinoctialium tunc quanta est dies artificialis
unius tanta est nox artificialis alterius et e converso.
Et autor removet unum dubium et
est tale: dicit aliquis quod nunquam duo dies
naturales possunt fieri equales; et sed
contingit dies naturales fieri equales sed
hoc solum est quantum ad vulgarem sensum
quod fit insensibiliter et equaliter accidit
tamen non percipitur. Sed hoc non est quantum
ad veritatem quia motus solis ex zo-
diaco in firmamento opposite demonstrat
Secunda prima particula hic non est correctio
in primis dicta orizon obliquus di-
vidit omnes parallelos ex parte equales
preter equinoctialem et arcus qui est
super orizontem dicitur arcus diei et arcus
qui est infra orizontem dicitur arcus noctis

[illegible] quod capita [illegible] circuli [illegible] distant [illegible] et [illegible] circulus [illegible] alterum [illegible] et sic [illegible] medietas [illegible] capricorni [illegible] scorpionis [illegible] in parallelo [illegible] parallelo [illegible] sagittarius [illegible] distant [illegible] 30 gradibus [illegible] capricorni et capricorni [illegible] dicunt [illegible] diebus [illegible] tunc [illegible] dies [illegible] sicud capricorni [illegible] tropici cancri et tropici capricorni [illegible] dies [illegible] sole existente in capite cancri [illegible] sole existente in capite capricorni [illegible] dies [illegible] et [illegible] autor [illegible] sole [illegible] in veritate [illegible] sole existente in capite cancri dies [illegible] sole existente in capricorno [illegible] notabile [illegible]

Item quod polus mundi elevatur super orisontem tanto maiores sunt dies estatis cum sol est in signis septentrionalibus et quanto est in signis australibus tanto magis minorantur dies super noctes. Notandum quod

sex signa que sunt in principio cancri per libram usque ad finem sagittarii habent ascensiones suas simul iunctas maiores ascensionibus aliorum sex signorum que sunt a principio capricorni per arietem usque ad finem geminorum. Unde sex signa primo dicta dicuntur recte oriri, alia sex oblique. Unde versus: recte mergit oblique et contra ascendit. Cancer dum surgit, tamen et eius signa nascuntur primo descendunt termite recto. Unde quando est nobis maior dies in estate, scilicet sole existente in principio cancri, tunc oriuntur de die sex signa directe orientia, de nocte vero sex oblique. Et e converso quando nobis est minor dies in hieme, scilicet sole existente in capricorno, tunc de die oriuntur illa sex signa oblique orientia, de nocte vero sex directe. Quando vero sol est in altero puncto equinoctialium, tunc de die oriuntur tria signa directe orientia et tria oblique, similiter et de nocte. Sed quamvis

[illegible] autor [illegible] et [illegible] quod [illegible] notabile que est [illegible] quanto polus mundi magis elevatur super orisontem tanto [illegible] dies [illegible] septentrionem et sic [illegible] dierum [illegible]

in ytalia Et demde sequitur de quo-
rundam ciuitatum situacione versus septem-
trionem de tanto dies semper ultra
et ultra prolongatur Exemplum si quis
esset directe sub polo antarctico
tunc homines ibidem a festo gregorii
habent unum diem ad festum lam-
perti et econtra a festo lamperti ad
festum gregorii habent unam noc-
tem Sed propositum quia sol
quando sol est in signis australibus tunc
dies minoratur super noctes Racio
est ista quia quanto plus polus ele-
leuatur super orizontem tanto ar-
cus est supra orizontem et tanto
minor infra orizontem et quanto
polus minus eleuatur tanto minor est
arcus supra orizontem et tanto ar-
cus infra orizontem Tunc ibi modum
quod sex signa uolunt quod illa sex
signa Cancer leo virgo libra scor-
pio sagittarius habent suos ascensiones
[illegible] arcus ascensionis aliorum
sex signorum que sunt capricornus
aquarius etc. Exemplum quibus sequitur
quod illa sex oriuntur recte non
simpliciter sed recte quia alia
arcus per equinoctialem cum eis oriuntur
sed alia oriuntur oblique quia cum
eis minor pars equinoctialis oritur
et de illo ponit versus scilicet Recte
meant et exponuntur sic supple
sex signa a sole cancri i. a prima
cancri gradus deinceps finibus i. tant
tyron i. sagittarius meant i. oriuntur
recte et occidunt oblique i. simul
sed alia signa i. capricornus cum se-
quentibus uel sequentibus pro tramite
i. oriuntur obliquo modo et descen-
dunt i. occidunt recto tramite i.
recto cursu tunc ibi Unde quod nota
explicat summam magis ad diuisos
dies tempus anni et est notandum
quod est maxima dies in estate
scilicet in principio cancri tunc oriuntur
per diem artificialem sex signa di-
recte sed in nocte oblique quando
quod est minima dies in anno
ut circa festum lucie in principio capri-
corni tunc de die sex et sic festum
sex signa oblique oriuntur sed
de nocte sex directe tunc sub diem
quando autem est sol in alterutro punctorum
equinoctialium scilicet circa festum gregorii

et lamperti tunc de die oriuntur tria
signa directe oriuntur et tria oblique
et similiter de nocte tria directe et tria
oblique Exemplum gratia quando est in
principio circa festum gregorii tunc
sol intrat arietem tunc per diem ori-
untur aries thaurus gemini oblique
Cancer leo virgo directe Et similiter
circa festum lamperti in principio libre
oriuntur libra scorpio sagittarius recte
Sed capricornus aquarius pisces oblique

Est enim regula quod omnis
breuius uel plura sit dies
uel nox sex signa oriuntur de die
et sex de nocte uel propter proli-
xitatem uel breuitatem dierum
uel noctis plura uel pauciora signa oriuntur
eclipsis [illegible] quod enim hora naturalis
sit spacium in quo medietas
signi oritur in quolibet
die equinocti similiter et in noc-
te scilicet sunt hore naturales in
omnibus autem climatibus terre qui
sunt elate equinoctiali ad parte
australi uel septentrionali
maiorantur uel minorantur
dies uel noctes et in quod
plura uel pauciora de signis
directe orientibus uel ob-
lique oriuntur de die uel de
nocte Iste versus pretendunt po-
etis ponit unam re-
gulam generalem de signis ex di-
uisione in duas partes in principio sed
hic in ea infert conclusionem ibi Ex
his colligitur Notandum magister
ista regula [illegible] dicit siue
sit dies longa ut circa festum viti
siue breuis ut circa festum lucie ad-
huc sex signa zodiaci ascendunt
per diem Nam circa festum viti ascen-
dunt sex scilicet cancer leo virgo libra
scorpio sagittarius et breuem noc-
tem tunc alia sex ascendunt scilicet capri-
cornus etc. Racio est ista quia
orizon intersecat zodiacum per me-
dium scilicet quod dies prolongantur
uel breuiantur sic fit rectitudo

signa circuli vel obliquitatis
zodiaci longiori die tardam ascendunt signa
oblique orientalia et ergo de nocte
brevissimum vel longa. Propter hoc
huius [illegible] una dies est longior
alia non ideo quia ascendunt plura
signa sed quia ascendunt plura recte
orientalia et una dies est brevior
alia non quia ascendunt pauciora
signa sed quia plura oblique et
pauciora recte ascendunt et sic incre-
mentum vel decrementum debet
sumi penes crementum vel decre-
mentum signorum vel oblique ori-
entium. Item dicit quod ideo colli-
quod cum hora sit spacium tempo-
ris in quo ascendit unum horiz-
naturalium quia hore naturales sunt sic
in quolibet die anni et in quali-
bet nocte anni non differentes
propter quod hora naturalis est tempus
ascensionis medii signi sed quia
in omni die artificiali ascendunt
sex medietates signorum similiter
in nocte [illegible] est quod est equa-
lis numerus horarum naturalium in omni
die et in omni nocte. Pro quo
[illegible] dies naturalis
est completa revolutio solis circa terram
24 horas horologii que dies naturalis
dividitur in diem artificialem qui
est latio solis super nostrum orizontem
et non artificialis est latio sub orizonte
in qua nocte sunt duo crepuscu-
la scilicet matutinum et vespertinum
et sunt partes noctis unde nox
tres habet partes scilicet crepusculum serotinum
et tempus medium et crepusculum
diluculum et denotatur crepusculum
vespertinum tamdiu quousque sol
veniat ad decem et octo gradus
sub orizonte post hoc medium noctis
durat ad crepusculum matutinum
in quod incipit quando sol est sub
orizonte ad 18 gradus ut
patet in libro de crepusculis et salit
ptholomeum in almagesti et
isti gradus sunt sumendi in circulo
altitudinis cum sol attingit
decimum et octavum gradum
sub orizonte ascendendo in suo circulo
altitudinis. Tunc locum solis assi-
gnat locum medium ita quod

fiat reflexio et causa luminis
in aere spissum et similiter
descendit contingit per occasum solis
et ideo apparet dies in nubibus
quousque sol ad 18 et 8 gradum
horizontem veniat. Item hore
naturales differunt ab artificialibus in
hoc quod hore artificiales sunt omnes
equales longitudinis sed hore
naturales non sunt equales sed
alia aliquotiens est longior alia
etiam in eodem die. Item vero
hore artificiales capiuntur a divi-
sione equali equinoctialis
circuli quod patet sic arguendo dies
naturalis habet 24 horas que consta-
nt in ordine ad 24 partes equaliter
ascendentes. Item vero hore
naturales sunt inequalis longitudinis
quod declaratur sic quia hore
naturales sumuntur a divisione
zodiaci sic quod cuilibet medietati
unius signi correspondet et sic
hora est tempus medii signi. Sed
quia zodiacus difformem motum
tamen sit circulus obliquus super
circulum uniformem motu dividitur
in 12 signa et sic erunt 24
medietates signorum. Sed quia tamen
unius medii signi in ascendendo
est prolixior quam alterius medii
signi ideo una hora naturalis est proli-
xior quam alia. Et hora naturalis me-
dii signi cancri est longior quam
hora naturalis medii signi capricorni
[illegible]. Item nota quod per iam dicta
clare patet quod in die veris longi-
tudinis sunt hore naturales sicut in
die brumae tot erunt sed dies veris est
longior quia longiores habet horas naturales
et dies hiemis brevior quia habet bre-
viores horas naturales. Item nota quod
te hore naturales dicuntur zodiacales a
divisione zodiaci capiuntur. Ani-
culum dicitur obliquus circulus [illegible]
solis in eo sit [illegible] naturalis
ipse etiam influxum signorum inde
diversa latio solis in obliquo circulo
est causa generationis et corruptionis.
Nodum quod illud quorum
ternit est in equinoctiali solibus

in anno pertransit per cenit
capitis eorum scilicet qui est in
principio arietis et in principio
libre et tunc illi duo al
ta solsticia cum sol distat
transit super capita eorum
sunt iterum duo illis sol
sticia yma scilicet cum sol est
in primis punctis cancri
et capricorni et dicuntur
yma quia tunc sol maxi
me remotus a cenit capi
tis eorum Ex predictis
patet enim quod habitantes equinoc
tium qui habitant sub equi
noctiali in anno quatuor
habent solsticia duo alta
et duo yma Patet etiam
quod duas habent estates
scilicet sole existente in altitudine
punctorum equinoctialium
duas etiam habent hyemes
scilicet sole existente in primis
punctis cancri et capricorni
et hoc est quod dicit Al
fraganus quod hyems et estas
sunt bis illis vicine et eiusdem
complexionis quia contra duo
tempora que sunt nobis hyems
et estas sunt illis due hye
mes et due estates Unde
notandum usum Lucani perpen
dicularis depressum habet e
torum quia circulus alti sol
sticii medium signorum
partitur orbem ibi enim

appellat Lucanus circulum
alti circuli solsticii equinoctiale
in quo contingit duo alta
solsticia sub equinoctiali contribus
orbem signorum appellat zo
diacum quem medium i.
divisum in duo media equi
noctialis partitur i. dividit
[illegible] quam auctor determinat de diversi
tate dierum et noctium tam in spera recta
quam in obliqua [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] et dividit in septem partes
[illegible] septem sunt climata partes patet [illegible]
in [illegible] [illegible] parte ostendit quid
accidit illis qui habitant sub equinoctiali
et dividitur in tres partes in prima
agit de solsticiis et equinoctiis habitan
tium in spera recta in 2a ostendit de
umbra [illegible] [illegible] solis in terra
[illegible] ortum et occasum [illegible]
[illegible] [illegible] polum scilicet [illegible] 3a
parte ibi in tria divisa illa [illegible]
[illegible] contingit [illegible] quatuor umbras 3a
ibi illa [illegible] [illegible] et [illegible] stelle
que sunt circa polos Circa primam parti
culam notandum quod habitantibus sub equi
noctiali contingit ut evidentia quoniam
quod sol bis in anno pertransit cenit
capitis ipsorum et tunc habent duo alta
solsticia et duo yma 2o etiam habent
duas estates et duas hyemes quoniam
patet in [illegible] Lucani qui appellat
equinoctialem circulum alti solsticii ut
patet in textu modo habitantibus sub equi
noctiali sol bis in anno pertransit
circa festum Gregorii et [illegible]
cenit capitis ipsorum ex hoc est quod
contingit eis habere duo alta solsticia
non quod sol ibi stat sed quia non
ulterius supra ipsorum cenit elevatur
[illegible] hoc sunt eis duo solsticia yma
i. declina scilicet circa festum Lucie quando
sol est in primo gradu capricorni sit
et circa festum Viti quando sol est in primo
gradu cancri quia tunc sol maxime
remotus a cenit capitis eorum [illegible]
modo habitantibus sub equinoctiali semper
[illegible] equinoctium [illegible] [illegible] [illegible]

alterius solsticii et duobus yemalibus ut
patet supra circulum [illegible]
yemis et estatis sunt alii vero et
[illegible] Ideo quod a illa
duo tropici sunt nobis [illegible] et
estatis sunt illi due yemes et due
estates et sic quando sol est in principio
cancri et capricorni tunc sunt [illegible]
Arietis et 90 gradibus zodiaci sunt
[illegible] sol est in istis signis gemini cum
[illegible] leo tunc sunt yemem [illegible]
sol est in virgine libra et scorpione
tunc sunt secundam estatem [illegible] in
sagittario capricorno aquario sunt
secundam yemem [illegible]
[illegible] versum lucani depressum [illegible]
topam i. [illegible] vel [illegible]
est sunt esse locum ad quem [illegible]
[illegible] consul [illegible] romanorum [illegible]
[illegible] tempore belli subiuga
[illegible] et regna versus equinoctialem
[illegible] i. in quo loco [illegible] alti solsticii i.
[illegible] equinoctialis in quo coniungit duo
[illegible] solsticia [illegible] i. dividit orbe
signi i. zodiacum qui est circulus si
[illegible] medium i. in duas partes
[illegible] medias [illegible]
supra signis [illegible] medium et aliam
cum aliis supra signis [illegible] septen
trionem

Illis etiam contingit in anno [illegible]
umbris quatuor cum enim sol
est in alterutro [illegible] equinocti
alium tunc in mane [illegible] um
bra eorum versus occidentem in ve
spere vero [illegible] In meridie vero
est illis umbra perpendicularis
cum sol sit super caput eorum
cum enim sol sit in signis sep
tentrionalibus [illegible] umbra eo
rum versus austrum quando est
in australibus [illegible] versus
septentrionem illis autem oriuntur
et occidunt stelle que sunt iuxta
polos sicud et [illegible] quibus [illegible]
[illegible] equinoctiale

Unde lucanus Tunc furor
extremos movit romanus
Horestas carmanosque duces
quorum iam flexus in au
strum Ether non totum mer
gi tamen aspicit arcton lucet i
exigua velox ubi nocte boo
tes Item audimus [illegible] in
stella [illegible]
[illegible] in se [illegible]
cas quod suo sidere turbat
aquas [illegible] occidit [illegible]
[illegible] In situ cum [illegible]
stelle nunquam tendunt in occasu
Unde Virgilius hic vertex nobis
semper sublimis at illum sub
pedibus stix atra videt
manesque profundi Et lucanus
[illegible] axis inocciduus gemina
clarissimus arcto Item
virgilius arctos occeani me
tuentis equore tingi

In ipsa parte [illegible] ponit [illegible]
[illegible] sub equinoctiali quod
est de umbris et dividitur in duas
partes In prima facit quod dictum est
in secunda parte ostendit quod stelle circa
polum articum [illegible] septentrionem
[illegible] occidunt [illegible] vero
Item [illegible] sub tropicum [illegible]
sub equinoctiali sunt quatuor umbrarum
[illegible] illorum est quando sol est in
ortu tunc umbra declinat versus
occidentem et illa est prima [illegible] vero
sol est in occasu tunc umbra [illegible]
versus orientem et est secunda [illegible]
sic quando sol est in signis septentriona
libus ut in Ariete et Tauro [illegible]
tunc umbra [illegible] vadit versus meri
diem [illegible] quando vero sol est in signis
australibus tunc umbra [illegible]
versus septentrionem [illegible]
[illegible] ad festum Gregorii um
bra fit eis versus meridiem noctis

Item uerum est illas quatuor ym
thas adhuc est quarta scilicet ipse
dicularum sed modicum [illegible]
quia per breue tempus durat et sit
cum sol est super cenit capitis
ipsorum. Et nunc sequitur dicit quod ille
septem stelle que sunt circa polum
articum [illegible] temporibus [illegible] sub
equinoctiali oriuntur et occidunt eis tem
poribus occidunt ipsis. Ex quo patet quod
non est aliqua stella in celo quin oritur
et occidit eis et hoc probat eius
poetarum et primo ipsum lucanum
qui dicit dum romani vellent
bellare aduersus [illegible] in ex
tremitate mundi [illegible] et ducem
armeniorum. Vel secundum alios con
tra predictos pugnare volebant
ut sibi ipsos subpeditarent ipsi ex
[illegible] in [illegible] armeniorum
qui tamen tendunt ab equinoctiali ad an
[illegible] tunc viderunt dispositionem
maiorem [illegible] tendere in occasum
sed non totaliter quia adhuc viderunt
in [illegible] stella que est quasi
auriga et subdit quod eadem stella
stella alio nomine Boetes dicta
[illegible] romanus in breui nocte
ita quod non occidebat. Ex hoc con
cludit quod ex quo omnes stelle occi
debant preter arcturum et tamen non fuit
sub equinoctiali [illegible] ab eq
uinoctiali tunc omnes occidunt. Item
auctor probat [illegible] per Ouidium
dicentem quod boetes [illegible]
[illegible] Alio nomine [illegible]
[illegible] occidit [illegible] se
mergendo in [illegible] se [illegible]
do per [illegible] lotionem aquarum
[illegible] turbulando et hoc tangit
in [illegible] ibi tunc furor ex
tremos. Qui exponuntur Romanus
furor id est [illegible] romanorum
mouit id est [illegible] tunc extremos
[illegible] id est [illegible] id est extremitate
mundi [illegible] patet [illegible] armenorum
[illegible] id est principes armenorum
[illegible] id est [illegible] est [illegible]
[illegible] ab equinoctiali et [illegible]
romanus apparet id est videt totum
[illegible] mergi id est [illegible] stellarum
celi tamen [illegible] non apparet mergi [illegible]

id est [illegible] stellam [illegible] anti
[illegible] id est in [illegible] loco [illegible]
Boetes [illegible] stella [illegible]
in [illegible] nocte id est breui nocte. Item
[illegible]
id est illa stella que alio nomine dicitur
Boetes tingi id est mergi [illegible]
[illegible] id est in mari [illegible]
id est maculat [illegible]
[illegible] id est [illegible]
se lauando [illegible]
in mente [illegible]
stellas occidere non aliud esse nisi
se in mare mergere et ab in [illegible]
[illegible] [illegible] non
est [illegible] Et sic probat quod [illegible]
[illegible] omnes stelle occidunt
sed aliter in spera obliqua [illegible] occidunt
ut patet per Virgilium qui dicit quod nobis
stelle circa polum articum nunquam occidunt
et hoc tangit in [illegible] ibi dicit
[illegible] nobis et illorum [illegible]
[illegible] semper [illegible] et [illegible]
[illegible] poetas et subdit ex in
lucani dicens Arcos [illegible]
qui exponuntur Arcos id est polos
Arcon mundi [illegible] est [illegible]
id est nunquam tendit nobis in occasum
et [illegible] clarissimum [illegible]
id est due [illegible] scilicet maior et minor
una ex [illegible] parte et alia ex altera
Item [illegible] exponuntur No
[illegible] id est [illegible]
id est stelle circa polum articum mergi
id est occidere in equore occeani id est maris

Illis autem quorum cenit est
inter equinoctialem et tropicum
cancri contingit bis in anno
quod sol pertransit cenit capitis eorum
quod sic potest intelligi. Circulus
parallelus equaliter distans ab equinocti
ali transiens per cenit capitis eorum
ipse circulus intersecabit zodia
cum in duobus locis equidi
stantibus a principio cancri. Igitur

Ex positis in istis duobus
versibus sequitur per ea capitulorum
sunt duas estates et
duas hiemes quatuor solsticia et
quatuor umbras sicud existentes
sub equinoctiali in terra sicut dicit
quidam arabiam esse unde lucanus
loquens de arabibus venientibus
romam in auxilium pompeio
dicit ignotum vobis arabes
venistis in orbem vm-
bras mirati nemorum non
ire sinistras quia in partibus
suis quandoque cadunt ille umbre
dextre quandoque sinistre quandoque
perpendiculares quandoque orientales
quandoque occidentales. Sed cum
venerunt romam citra tropicum
cancri tunc habuerunt septentri-
onales umbras. In versu tercio ponit
accidentia contingentia hominibus habi-
tantibus inter tropicum cancri et equi-
noctialem et dividitur in duas partes.
Prima fit quod dictum est in 2a
declarat per dictum lucani ubi unde lucanus
loquitur primo dicit sic illis hominibus
qui sunt inter equinoctialem et tro-
picum cancri contingit quod sol bis
in anno pertransit cenit capitum
eorum et quod sic declarat ymagi-
netur quidam circulus parallelus equi di-
stans ab equinoctiali ex omni parte
pertransiens cenit capitis eorum ille
circulus intersecabit i. dividet zo-
diacum in duobus locis equaliter di-
stantibus a puncto cancri sol igitur
quando est in illis duobus punctis in
quibus ille circulus parallelus et equi-
noctialis intersecant zodiacum transit
per cenit capitis eorum quod bis in anno
contingit [illegible] sic sunt duas
estates et duas hiemes quia sol

capitis eorum per se magis elongatur
recedit. Item in anno sunt quatuor
solsticia duo alta et duo ima
ut cum sol fuerit in puncto cancri vel
capricorni sunt duo ima solsticia
et sunt quatuor umbras sicud ho-
mines existentes sub equinoctiali. Se-
cundo dicit quod sunt duas estates
et duas hiemes utrumque tamen eorum
dissimiles et qualitates sicut quod
homines habitantes vel existentes sub
equinoctiali. Videtur quod tempus in eis
tunc quando sol venit ad tropicum
capricorni tunc terra est valde frigida
or quando sol fuerit in puncto cancri
Et tunc subdit quod vel [illegible]
et tropicum cancri 2a [illegible]
sita arabia quod probat per lucanum
dicentem ubi lucanus loquens de arabibus
venientibus romam pompeio cesa-
re regnante in auxilium Vos
Arabes versus in urbem i. i. terram
ignotam seu romam sic cum sunt
mirati [illegible] ire i. intrare sinistras
umbras i. umbras septentriona-
les nemorum et hic 2a dextras est
intelligendum in meridie cum sol fuerit in
ariete vel tropico cancri vel [illegible]
ps meridionales et dextre sed septe-
ntrionales sinistre orientales et
occidentales [illegible] retro Et tunc
sunt mirati sunt Arabes quia in
partibus suis scilicet Arabia umbre
cadunt eis quandoque dextre quandoque sinistre
quandoque orientales quandoque occidentales quandoque
perpendiculares Sed cum venerunt
romam citra tropicum cancri semper
habuerunt umbras septentrionales
et non australes Secundo quod dixit
habitantes in illo climate sunt qua-
tuor accidentia Primum est quod sol bis
pertransit cenit capitis eorum Secundum
est quod sunt duo solsticia alta et
ima Tercium est quod sunt duas
estates et duas hiemes Quartum est
quod sunt quatuor umbras Sed ista
accidentia non sunt quia corpora orizon-
te obliquo et stelle que sunt
potentes actionum super ipsos secundum
apparitionem Primum accidens tantum
ponit in hoc tertia et sufficit pro
lectione sufficit parallelus per lineam
hemisphaerii et per medium regionis tunc
cum sol est in capite [illegible]

Sed 2m accidens statim sequitur capitulo et licet illi supra dictum est ubi sequitur quod iste due civitates licet dissimiles sunt quia tempora illi sunt inequales quia sole existente in tropico cancri vel tunc sol magis vicinatur cenit capitis ipsorum quam in tropico capricorni et ideo illud tempus est calidior quam alia 2o quando magis accedit cenit capitis illorum tanto tempus illud est calidior et siccior et illud [illegible] pluvior et frigidior et ideo dissimiles sunt. Quando Pompeius vel Cesar [illegible] Romanorum tunc litem cum [illegible] ne et venit [illegible] cum et [illegible] Romanum volue[illegible] cum suscipere 2o misit pro arabibus ut venirent sibi in adiutorium ut Roma [illegible] dum Arabes fuerunt [illegible] Romanum esse situati versus tropicum cancri solam habuerunt unam umbram scilicet septentrionalem [illegible] et hic tangit Lucanus in textu et [illegible] esse sequitur

Illis quidem quorum cenit est in tropico cancri contingit quod sol semel in anno transit per cenit capitis eorum scilicet quando est in primo puncto cancri et tunc in una hora unius diei totius anni est illis umbra perpendicularis in quali situ dicitur esse Ciene civitas unde Lucanus umbras nusquam flectente Ciene. Hoc intellige in meridie unius diei et per residuum totius anni iacet illis umbra septentrionalis [illegible] quia decantibus contingentibus illis qui habitant in climate 2o et dimidio in duabus partibus [illegible]

[illegible] sol [illegible] contingit quod sol semel in anno transit cenit capitis ipsorum sequitur sol est in primo puncto cancri tunc una hora unius diei [illegible] perpendicularis et [illegible] dicitur quod in isto [illegible] tropico cancri dicitur situari Ciene et [illegible] Ciene et [illegible] auctoritate Lucani dicentis umbras nusquam flectente Ciene quia umbra nusquam oblique cadit [illegible] perpendiculariter et hic est verum in hora meridiei sed pro toto tempore residuum totius anni iacet illis umbra septentrionalis. Non pro [illegible] sub tropico cancri non sola contingunt duo accidentia sed etiam alia quia sol semel in anno pertransit cenit capitis ipsorum et [illegible] quod sol non movetur ultra tropicum cum ibi sit maxima declinatio et quia cenit capitis eorum est in tropico cancri ideo [illegible] accidit [illegible] accidens [illegible] est quod habent duas umbras unam perpendicularem et hanc non habent nisi [illegible] scilicet quando sol transit per cenit capitis eorum et hoc in meridie et patet quod per totum annum solum [illegible] habent umbram perpendicularem. Aliam habent umbram septentrionalem eo quod sol declinat [illegible] ab eis versus austrum. Tertium accidens potest addi quod hii habent unum solstitium altum et unum yemale et capitulo sequitur quartum accidens quod hii habent unam estatem et unam hiemem estatem et secundum quod Ciene est una civitas famosa et principalis in 2o climate situata iuxta civitatem illud clima capit nomen suum quod dicitur diaciennos seu diacienes et hec civitas est situata sub tropico cancri et distat inter [illegible] versus meridiem [illegible] 1080 stadiis et [illegible] est civitas [illegible]

climate sita supra [illegible] dyametrum
[illegible] clima et ulterius continue usque
ad terram [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible] [illegible] et
ibi ageret equinoctium et [illegible]
[illegible] [illegible] et [illegible] que sunt [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] et sone
[illegible] [illegible] [illegible] opponit et [illegible]
[illegible] [illegible] [illegible] [illegible] statute
umbra i perpendicularis [illegible] nisi in
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] contingunt duo accidentia
[illegible] [illegible] quod sol in anno semel
pertransit directe capita ipsorum [illegible]
[illegible] [illegible] umbram septentrionalem
[illegible] [illegible] [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible]
Illis vero quorum [illegible] est in
tropicum cancri et circulum
articulum contingit quod sol in sapi
[illegible] non pertransit directe capi
tis eorum et illis [illegible] umbra [illegible]
versus septentrionem equalis est
situs [illegible] [illegible] [illegible] quod
in aliquos ethiopia vel terra
[illegible] [illegible] est terra tropicum cancri
vel [illegible] circulum. Ubi [illegible]
Ethiopum quod solum quod
non [illegible] ab ulla signi
[illegible] [illegible] poli nisi [illegible]
[illegible] [illegible] [illegible] ultima curvati [illegible]
[illegible] virgula [illegible] dicitur
[illegible] quod ibi signum [illegible]
equinoctii nam [illegible] [illegible] parte
zodiaci et [illegible] [illegible] [illegible]
[illegible] in maiorem partem sui
est in signo quod [illegible] [illegible]
[illegible] cum sit in zodiaco [illegible]
maiorem sui partem [illegible] [illegible]
dit [illegible] [illegible] [illegible] tropi
cum cancri et ita premit

ethiopum licet ulla pars
zodiaci [illegible] cum [illegible]
[illegible] [illegible] [illegible] loquitur
[illegible] [illegible] versus equi
noctialem ut esset in directo
Arietis vel alterius signi [illegible]
[illegible] ab ariete et ligure
et aliis signis quod [illegible] [illegible]
[illegible] parallellum equinoctiali
circumductum [illegible] capitis
ethiopum et Arietem et [illegible]
[illegible] vel aliud signum [illegible]
[illegible] [illegible] [illegible] [illegible]
in [illegible] climate [illegible] [illegible] [illegible]
cancri et circulum [illegible] et [illegible]
[illegible] [illegible] et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
ethiopie ibi [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
sol non [illegible] [illegible] capitis eorum
et similiter quod [illegible] [illegible] [illegible]
umbram scilicet septentrionalem et
[illegible] quod [illegible] est situs
[illegible] [illegible] [illegible] quod in [illegible]
ethiopia vel terra [illegible] [illegible] terra
tropicum cancri et [illegible] [illegible] [illegible]
[illegible] [illegible] quod terra ethiopum
non ad [illegible] ad aliquam partem
zodiaci nisi [illegible] seu [illegible]
in [illegible] [illegible] [illegible] [illegible]
[illegible] tropicum. Ex quo patet
quod ethiopia [illegible] terra tropicum et
[illegible] quod in aliquos signum
[illegible] [illegible] [illegible] [illegible] parte
zodiaci et [illegible] [illegible] [illegible]
animal [illegible] quod in maiorem
sui partem est in zodiaco [illegible]
[illegible] [illegible] extendit [illegible] tropi
cum cancri. Et si quis dicat
quod [illegible] [illegible] [illegible] [illegible]
[illegible] equinoctialem et [illegible] [illegible]
tropicum [illegible] auctor quod [illegible] non
[illegible] [illegible] [illegible] [illegible] [illegible] quod

tia ethiopie pertinet ad cancrum
vel ad aliquod aliud signum ad
quod litteram dicta extenditur in-
gleis sed quod est complexus et quod dicta
littera qui dicit nulla pars zodia-
ci pertinet quia virgula litteram istius
Ethiopie est sed [illegible]
ethiopie utrum sit situata directe
sub tropico equinoctiali vel sub
tropico cancri quod eum directe
sunt situata cum tropico cancri
quia dicit litteram quod [illegible]
pes litterami pertinet ethiopiam
et ille pes extenditur usque tro-
picum et [illegible] ipsorum est quia
sub equinoctiali celo est [illegible]
peciam aeris quia sub tropico
cancri est quando sol [illegible] calefa-
cit tanto amplius frigidas noctes
frigescat cum sit ibi equalitas
diei et noctis et [illegible]
[illegible] [illegible]
et sub equinoctiali est [illegible]
temperatie [illegible]
[illegible] sub tropico cancri est ethi-
opes [illegible] sunt
[illegible] et [illegible] ethio-
piam esse situatam sub tropico
cancri et non sub tropico equinocti-
alis [illegible] quod [illegible] inter
tropicum cancri et [illegible]
[illegible] [illegible]
cia [illegible] quod sol [illegible] pertransit
[illegible] capitis ipsorum [illegible]
[illegible] capitis ipsorum est [illegible]
[illegible] quia cum tropicum cancri
[illegible] est quod [illegible]
septentrionalem in meridie et [illegible]
[illegible] [illegible]
Quod [illegible] est [illegible]
[illegible] [illegible]
[illegible] septentrionalis Ratio
et [illegible] quia sol [illegible]
pertransit [illegible] capitis ipsorum [illegible]
[illegible] sub [illegible] regione
[illegible] [illegible] ut patet per
[illegible] Vel [illegible]
[illegible] [illegible] [illegible]
bit [illegible] [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
quod [illegible]
[illegible] id est [illegible] signum [illegible]
id est zodiaci [illegible]
id est ultima pars [illegible]
illius signi [illegible]
pollice id est [illegible]
Et [illegible] pollex [illegible] capit [illegible]
Sed tamen racio probanda
hunc contrariatur non enim [illegible] denigrati
sub [illegible] temperata nascuntur et
[illegible] dicendum est ad hoc id est quod
illa pars ethiopie signa [illegible]
[illegible] est sub equinoctiali [illegible] et
quod pes cancri [illegible] capite
dicitur usque equinoctialem Sed di-
[illegible] inter signa cardinalia
et regiones Nam signa cardinalia
dicuntur duo signa in quibus
tangunt duo solsticia et duo
dicuntur cardinalia in quibus tangunt
equinoctia [illegible] regiones appellantur
signa inter media [illegible] [illegible]
ethiopia sit sub equinoctiali et non
prima [illegible] regio [illegible] [illegible]
signis cardinalibus tamen [illegible]
et libra [illegible] per auctorem [illegible]
[illegible] et ita fit
[illegible] ethiopiam non esse sub
tropicum cancri [illegible]
ipsam [illegible] [illegible]
[illegible] quod illa pars [illegible] ad
[illegible] [illegible] inter signa
[illegible] [illegible]
[illegible] quod ethiopia non sit sita [illegible]
tropicum cancri [illegible] si esset
sub tropico cancri et [illegible] ibi sit [illegible]
temperata [illegible] ibi non essent [illegible]
[illegible] sed potius albi et [illegible] quod
potius ethiopia est situata sub equinoctiali

Sed ad secundum quod dicitur quod ethio
pia non ponitur alia a quarta regione
nisi ab angula tantum ipse videtur
concludendo et ultimum ponitur diversum
inter regionem et signa cardinali
a. Nam signa cardinalia sunt
duo signa equinoctiorum et duo sol
sticiorum sed alia omnia ista signa
et ista quatuor dicuntur regiones etc.
et quod licet secundum lucanum ethiopia
non ponitur alia quarta regio tamen
ponitur a signis cardinalibus quod
hoc est contra lucanum primo hoc ista ra
tio non concludit quia fundatur in
falso scilicet in eo quod sub tropico cancri
sit habitacio temperata unde expedit
et quod sub equinoctiali habitacio est
quietior quam sub tropico cancri
eo quod equinoctialis est circulus maior
quam tropicus cancri et sol cum de
scendit minus radios suos rectos [illegible]
potest imprimit et per consequens minus ard
ebit unde quaerentes [illegible] quod
ethiopia sit [illegible] sub tropico cancri
eo quod ethiopes [illegible] excellentissime
solis calorem [illegible] unde
[illegible] nigredo ethiopum [illegible] adu
stione sanguinis [et terrestres] sub
[illegible] et
terrestris [illegible]
quia nigredo in eis causatur
Illius quod quartum [illegible] est in
artico circulo contingit quod in quolibet
die temporis anni oritur eorum
est idem cum polo zodiaci et
tunc [illegible] zodiacum sive eclip
ticam [illegible] orizonte et hoc est quod
dicit alfraganus quod ibi circulus
zodiaci flectitur super circulum [illegible]
[illegible] sed cum [illegible] continue
movetur circulus orizontis intersecta
bit zodiacum in instanti et cum
sint maximi circuli in spera
intersecabunt se in partes equales

Unde secundum unam medietatem
[illegible] a capite [illegible]
mergit se super orizontem et
[illegible]
reliqua mergit vel deprimitur
sub orizonte Et hoc est quod
dicit alfraganus quod ibi occidunt
repente sex signa et reliqua
sex oriuntur in tota equinocti
alem cum et ecliptica sit
[illegible] orizontem istorum sole existente in
primo puncto cancri erit illis
una dies 24 horarum et quasi
in instanti per noctem [illegible] in instanti
sol tangit orizontem [illegible] et sta
tim emergit super et ille [illegible]
tactus est illis per noctem et tota
revolutione fiet illis una dies
[illegible] contingit illis sole ex
istente in principio capricorni in
qua [illegible] est illis una nox
fere 24 horarum et quasi
in instanti per diem [illegible]
[illegible]
[illegible] circulo artico et ponit quod illis
accidunt [illegible] accidentia que [illegible]
in textu [illegible] accidens est
illud quod in quolibet die anni
oritur capitis ipsorum [illegible] cum
polo zodiaci [illegible] zodiaci
sive ecliptice [illegible] tangit ipsorum
orizontem unde alfraganus dicit
habitantibus sub circulo artico zo
diacus flectitur super circulum [illegible]
in [illegible] orizontem necessario polo
zodiaci et [illegible] circulus describit
sed quia oritur ipsorum est in circulo
artico sequitur ergo quod oritur capitis
ipsorum [illegible] et polo
zodiaci [illegible] idem oritur
[illegible] accidens [illegible] tangit
[illegible] sed [illegible]
[illegible]

mouet pte necessario semper orizon tes
orizontes intersecant zodiacum in punctis
et cum sint maximi circuli in spera
se intersecant se in partes equales necesse
est una medietas zodiaci esset super
orizontem reliqua vero medietas semper
occidit ut patet in textu auctoritate alfra
gani dicentis semper occidunt in parte sa
[illegible] dicentis semper occidunt in parte
signa reliqua vero semper signa contingit
reperire item tamen accidit tangi ibi
[illegible] ita sit orizon et est idem quod
[illegible] est eadem cum orizonte
[illegible] est quod sol est in primo gradu
[illegible] circa festum viti contingit illis
[illegible] quod eis sit una dies artificialis
[illegible] et quod reliquum [illegible] habebit
2 horas et [illegible] in instanti sol debet
[illegible] [illegible] et [illegible] ergo [illegible]
ille [illegible] fit nocte sed tota
[illegible] diem [illegible] tangit [illegible]
[illegible] contingit cum sol est in primo gradu
capricorni ut circa festum lucie [illegible]
est illis hominibus una nox 24 horarum
vel quasi et quod reliquum [illegible] et sic
una revolucio celi est [illegible]

[con]stellis quorum circulus est inter arti-
cum circulum et polum mun-
di articum contingit quod ori-
zon eorum intersecabit zodiacum
in punctis duobus equaliter dista-
tibus a principio cancri et revo-
lucione firmamenti contingit quod inter
orizontem et circulum articum
illa porcio zodiaci intercepta semper
relinquitur super orizontem unde
patet quod dum sol est in illa por-
cione erit dies continua sine
nocte ergo si fuerit illa porcio
ad quantitatem unius signi erit
ibi dies sine nocte ad quan-
titatem unius mensis si ad quan-
titatem duorum signorum erit unus
dies continuus sine nocte ad quan-
titatem duorum mensium et ita

deinceps sibi contingit illa quod
suus orizon intersecabit zo-
diacum in punctis duobus
equaliter distantibus a principio
capricorni et illa porcio zodiaci in-
tercepta inter orizontem et circulum ar-
ticum semper relinquitur sub orizonte
unde quando sol est in illa porcione
intercepta ab illis duobus punctis
equaliter distantibus a principio capricorni
erit una nox continua sine die
brevius vel longius secundum quantitatem
intercepte porcionis. Signa
autem reliqua que illa oriuntur
et occidunt oriuntur eis prepostere
et occidunt prepostere sicut thaurus
ante arietem aries ante pisces
pisces ante aquarium et tunc signa
his opposita oriuntur recto or-
dine sed occidunt prepostere
ut scorpio ante libram libra
ante virginem et tunc signa
opposita occidunt directe

Ille ista parte [illegible] ponit accidencia eorum
qui habitant versus septemtrionem inter
circulum articum et polum mundi et ita fit
primo quod dictum est secundo [illegible]
[illegible] et [illegible] tercio [illegible]
[illegible] signorum [illegible]
ibi [illegible] ibi signa sunt reliqua
que eis occidunt et oriuntur et [illegible]
in textu [illegible] habitantes inter circulum
articum et polum habent illud accidens
quod orizon eorum intersecat zodiacum in duobus
punctis equaliter distantibus a principio can-
cri ubi gradus [illegible] geminorum et in fine
leonis [illegible] distant a principio cancri
[illegible] [illegible] [illegible] distant per 60
gradus a principio cancri et similiter finis leo-
nis distat a principio cancri [illegible] per 60 gradus
[illegible] [illegible] quod dies unus est horarum ibi
habitantibus in porcione intersecante [illegible]

[illegible]

Illis autem quorum cenit est in polo artico contingit quod illorum orizon est idem quod equinoctialis unde cum equinoctialis intersecat zodiacum in partes equales sic et illorum orizon [illegible] medietatem zodiaci super orizontem et reliquam infra. Unde cum sol discurrat per illam medietatem que est a principio arietis usque ad finem virginis erit eis unus dies continuus sine nocte et cum sol decurrat in illa medietate que est a principio libre usque in finem piscium erit una nox continua sine die. Unde una medietas totius anni est eis una dies artificialis et alia medietas est una nox unde toto anno est ibi tota dies naturalis sed cum ibi [illegible] sol magis [illegible] gradibus sub orizonte depressus videtur illis quod sit dies continuus sine nocte [illegible] non est nox dies videtur

[illegible] solis [illegible] super orizontem hoc autem est contra a[illegible] vulgari in sensualiter. Non enim est dies naturalis continuum ad [illegible] solis usque ad eius occasum sub orizonte. Ad hoc autem quod ibi [illegible] esse videtur [illegible] quod ibi est aer nebulosus et spissus radiis enim solaribus [illegible] magis de vaporibus [illegible] continue ut [illegible] aerem non [illegible]

[illegible]

ex vaporibus [illegible] [illegible] [illegible]
aer est ibi valde grossus et i[n]
spissatus et homines respicientes
et inspicientes per illum aerem cito i[n]
terra fiunt [illegible] ideo homines non possunt
ibi morari et illa regio est ultra
norbericum ubi aer est valde gros-
sus et inspissatus et densus ita quod
homines ibi ambulantes vident
ymagines suas in eo tanquam in spe-
culo et propterea dicunt se videre dyabo-
lum et [illegible] corporaliter dicentes
[illegible] et fantasmata et ibi [illegible]
esse valde [illegible] sed tamen aptius
dicunt esse [illegible] valles [illegible] [illegible]
et philosophi

Magnitudo circulus
primo quod in super-
ficie terre dicitur sup-
positus equinoctiali.

Item intelligatur alius circulus
in superficie terre transiens per ori-
entem et occidentem et per polos
mundi. Isti duo circuli intersecant
se in duobus locis ad angu-
los rectos et speras et divi-
dunt totam terram in quatuor
partes quarum una est nostra
habitabilis illa scilicet que inter
partem inter semicirculi ducti
ab oriente in occidentem in super-
ficie equinoctialis et semicircu-
li ductum ab oriente in occidentem
per polum articum non tamen illa
quarta tota est habitabilis quia
partes illius propinque equinoc-
tiali inhabitabiles sunt propter
nimium calorem. Similiter partes
illius propinque polo artico
inhabitabiles sunt propter nimium
frigus. Item [illegible] intelligimus [illegible]

[illegible] una est [illegible] [illegible]
equinoctiali dividitur partes quarte
inhabitabiles propter calorem aptius
habitationi que sunt versus septentri-
onem. Item intelligatur alia li-
nea equidistans a polo artico
dividens partes quarte inhabitabiles
propter frigus aptius habitationibus
que sunt versus equinoctialem
inter istas duas lineas equidistan-
tes intelligantur sex linee equidistantes
parallele equinoctiali que cum pre-
dictis dividunt totalem partem
quarte habitabilis in septem porci-
ones que dicuntur septem climata.
Iste est tamen post principalem capituli
[illegible] in [illegible] [illegible] [illegible] [illegible]
tibus mundi et dividitur in duas partes
principales [illegible] primitus quod [illegible]
[illegible] [illegible] et ordinem
climatum ubi medium [illegible] climatis
et [illegible] [illegible] [illegible]
non [illegible] [illegible] [illegible] septem
climatum proponit ymaginationem
duorum circulorum quorum unus [illegible]
equinoctiali transcendit alter vero transcen-
dit [illegible] per polos mundi et vadit
per orientem et occidentem et vult quod predicti
duo circuli intersecant se invicem ad an-
gulos rectos et speras id est ad modum
crucis ut si quis capiat equinoctialem
in meridiano et [illegible] [illegible] vel sectorem
terra dividitur in quatuor partes vel quartas
sicut partes terre aquis [illegible] [illegible]
[illegible] [illegible] [illegible]
manet arida et habitabilis. Item [illegible] ista
quarta habitabilis [illegible] vel semicirculus
qui vadit ab oriente per polum articum
ad occidentem ex una parte et [illegible]
ad alium circulum qui vadit ab oriente
in occidentem sub equinoctiali. Item nota
ista integra quarta [illegible] totum non est
habitabilis propter [illegible] distemperamenta
[illegible] [illegible] terra [illegible] equinoctiali pro-
pter calorem est inhabitabilis propter nimium calorem
sic similiter terra circa polum non est habitabilis
propter nimium frigus. Item debet intelligi
[illegible] [illegible] ubi credit [illegible]

[illegible]

Medium primi climatis est ubi maior dies prolixioris est 13 horarum et elevatur polus mundi super terre limbum circumferentie 16 gradibus. Et dicitur clima diameroes. Initium vero eius est ubi maior dies prolixioris est 12 horarum et dimidie et quarte partis unius hore et elevatur polus mundi super orizontem 12 gradibus et dimidio et quarta unius gradus. Et extenditur eius latitudo usque ad locum ubi longior dies anni est 13 horarum et quarte unius et elevatur polus super orizontem 20 gradibus et dimidio quod spacium terre est 440 miliarium.

[illegible]

Medium secundi climatis est ubi maior dies est 13 horarum et dimidio et elevatur poli super orizonte 24 graduum et quinte partis unius. Et dicitur clima diasienes. Latitudo vero eius a termino primi climatis usque ad locum ubi prolixior dies est 13 horarum et dimidie et quarte partis unius hore et elevatur polus 27 gradibus et dimidio super orizontem. Quod spacium terre est 404 miliarium.

[illegible]

[illegible] quo ad elevationem poli supra orizontem ibi et elevatio poli supra orizontem est 24 graduum. 3o quo ad primum nomen ibi et dicitur clima dia [illegible] quo ad spatium terre sibi [illegible] ibi tunc dicit quod spatium terre est 400 miliarium et patet litera de se [illegible] clima vocatur diameroes et dicitur a dia quod est de et meroe quod est civitas famosa in illo climate situata a qua illud clima sumpsit denominationem et illa civitas est subtropicum cancri ut patet ut supra [illegible] [illegible] semper est declinatio [illegible] [illegible] est declinatio 24 eius declinationis cancri abcaprocli [illegible] supra climata [illegible] 4or [illegible] declinatio et [illegible] tanto plus elevatur polus supra orizontem et quia principium primi climatis est ubi polus elevatur 12 gradibus supra orizontem principium vero 2i climatis est ubi polus elevatur 20 gradibus supra orizontem [illegible] quod principium 2i climatis [illegible] [illegible] dupla distantiam abcaprocli [illegible] ad principium primi climatis [illegible] [illegible] polus polus supra orizontem elevatur [illegible] dies estivales magis prolongat [illegible] dies [illegible] [illegible] [illegible] [illegible] ubi [illegible] dies [illegible] [illegible] [illegible] quod in [illegible] climate [illegible] talis variatio dierum [illegible] per variationem dimidii horae [illegible] [illegible] per semitonum

Medium tertii climatis est ubi sit longitudo diei prolixioris 14 horarum et elevatio poli supra orizontem 30 graduum et dimidio et quarte partis unius et dicitur clima dialexandrios. Latitudo cuius est a termino 2i climatis usque ad locum ubi dies est prolixior 14 horarum et quarte unius et altitudo poli 33 graduum et duarum tertiarum, quod spatium terre est 350 miliarium.

[illegible] [illegible] [illegible] [illegible] [illegible] tertii climatis et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] patet litera de se [illegible] tertium clima [illegible] clima dialexandrios et dicitur a dia quod est de et alexandria civitate famosa

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] situata [illegible] [illegible] climate [illegible] [illegible] alexander [illegible] [illegible] [illegible] [illegible] [illegible] climate [illegible] [illegible] [illegible] clima et [illegible] [illegible] [illegible] dies prolixior [illegible] [illegible] dicitur illi dies [illegible] sol [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dies prolixior dicitur illi dies [illegible] sol [illegible] [illegible] [illegible] capricorni quod plus [illegible] [illegible] et [illegible] contingit [illegible] [illegible] [illegible] [illegible] polum articum [illegible] [illegible] [illegible] [illegible] aut [illegible] capricorni [illegible] [illegible] contingit dies prolixior [illegible] [illegible] [illegible] [illegible] [illegible] sol [illegible] [illegible] [illegible] capricorni [illegible] ut patet supra

Medium quarti climatis est ubi maior dies est 14 horarum et dimidie et altitudo poli 36 graduum et duarum quintarum et dicitur clima diarodos. Latitudo vero eius est a termino tertii climatis usque ad locum ubi prolixior dies est 14 horarum et dimidie et quarte unius et elevatio poli est 39 graduum, quod spatium terre est 300 miliarium. Medium quinti climatis est ubi maior dies est 15 horarum et elevatio poli est 41 graduum et tertie partis unius et dicitur clima diaromes. Latitudo vero eius est a termino quarti climatis usque ad locum ubi prolixior dies sit 15 horarum et quarte unius et eius elevatio 43 graduum et dimidii, spatium terre est 255 miliarium. Medium sexti climatis est ubi prolixior dies est 15 horarum et dimidio et elevatio poli supra orizontem 45 graduum et duabus quintis unius et dicitur clima diaboristenes. Latitudo vero eius est

a septimo climate usque ad locum ubi
longitudo diei plurior est 17 horarum
et dimidie et quarte unius et a polis
elevacio est 1 graduum 2 partibus que
est distancia terre 212 miliarium que
finis septimi climatis et ubi pli
xitas dierum est 18 horarum et eleva
cio poli super orizontem est 58 gradu
et dimidie terre et dicitur clima dia
riphos cuius verba latina est exterior
septimi usque ubicumque maior dies est
16 horarum et parte unius et eleva
natur polus super orizontem 50 gra
dibus et dimidie spacium terre 1871
iuxta partem ... protractat ultra per climata
et in qua terra passus dimidii in quatuor partes
populos sed propter facilitatem et causa com
[illegible] quia manet in diversa et per
deponendo ... circa vero terciam clima
interius explicat circa hanc vero quod clima
dicitur clima dyameroes et dicitur adya quod est
et ideo civitas vel in sicilia famosa [illegible]
climate situata et ipso climate est ysi in
que est in medio terre dispositio ... dicitur quod
comprehendit in ea passus ... et nos ubi per suam
passionem [illegible] quo patet quod in ysi
est una estas et una yemps in qua ibi
non est ita frigida sicut apud nos
quia ipsa plus vicinatur equinoctiali ...
circa 2m ... clima dicitur
clima dyasyenes et dicitur adya quod
est et romes quod est roma quia in
tali climate situata est civitas roma
ex quo iterum patet quod ex quo roma remo
tius distat ab equinoctiali quam ysi ...
est quod ibi dies sunt longiores et quod
tempore yemis frigus in roma est intensius
quam in ysi. Item circa tercium ... cuius
... clima dicitur dyabantenos et
dicitur adya quod est et ... vero
semper ... civitatibus in quarto pro
3° 2° primo climatibus est et ... civitatibus
in septimo climate et nobis ... civitatibus
australis sive meridionalis et ... bore
alis circa ultimum ... septimum
clima dicitur clima dyarifeos et dicitur
adya quod est et rifeos montes in quo

... frigiditatem
quia ... radii solis reflexi in superficie ...
cum non possunt attingere illuc ...
[illegible] et nives dissolvendo
Item ... in ... climatis ponitur
finitur alemanie que incipit ... in
[illegible] Item ... septem climata
diversa et eciam ... regiones
mundi diversas diversi respiciunt influentie et constel-
laciones quia ... in diversis climatibus
diversa ... quia planetarum et
et diversa ... in ista terra
... et in ... et volatilia et
... diversitatem aspectuum
planetarum et constellacionum ...
... est causa diversitatis ydiomatum
similiter et morum ... diversis regionibus habitancium
Item ... distancia climatum quo ad
diei horas et quo ad elevacionem po
li tam quo ad gradus quam quo ad
minuta et terre est eadem quod ... tam
diversitas in tres partes scilicet in partem
primam mediam et ultimam pro prima
... in tabula ... principium
pro media ... medium et
pro ultima ... finis Item
in ista ... contra ... diei
... integrarum horarum
dierum quo ad ... climatis
... super ...
tabulis horarum ... ubicumque ponitur
... primi climatis
in 2a linea ubi ... integras
horas ... horam et
... linea
... horarum ... in 30 minuta
... in 2a linea ponitur ... et ...
medium primi climatis ... ibi sunt
quod ibi ... in horis
integris ... ubi ... primi
primi climatis ... quod ibi ...
... pro una hora ... in 2a li
nea ponuntur 30 minuta ... medium
secundi climatis tunc ibi supplent
media hora ... vero ... contra
gradibus scilicet quod ad ... gradus in ysta
parte climatis elevatur polus super
orizontem ... vero ...
... minuta graduum ultra in
tegros gradus secundum latus climatum
quo ad miliaria habetur in
ordine ultimo ... sequitur [illegible]

		hore	minuta	gradus	minuta	[illegible]
Diameroes	prima	12	45	12	14	
	medium	13	15	16	0	primi 440
	extremus	13	15	20	30	
Diasiene	prima	13	30	20	30	
	medium	13	54	24	15	secundi 404
	extremus	13	45	24	30	
Dialexandrios	prima	13	0	21	30	
	medium	14	15	30	45	Tertii 350
	extremus	14	15	33	35	
Diarodon	prima	14	30	33	24	Quarti 300
	medium	14	45	36	52	
	extremus	14	45	30	52	
Diaromes	prima	14	0	30	20	Quinti 255
	medium	15	15	41	22	
	extremus	15	15	43	22	
Diaboristenes	prima	15	30	43	24	Sexti 212
	medium	15	45	45	15	
	extremus	15	45	41	15	
Diaripheos	prima	15	0	41	40	Septimi 185
	medium	16	15	48	30	
	extremus	16		50		

Ultra autem terminos septem climatum licet plures sint insule et loca in habitata ex quod dixit sed quia pauce est habitationes sub illis non computantur, unde utraque divisio inter inequalem tractatu et sunt contra divisionis est enim horarum dimidie et ex elevationem poli super orizontem 38 graduum habentes longiorem dierum duodecim quia dicit aliquis quod predicta spacia non sunt plura climata quam septem sed habitationes que sub illis septem climatis in quo continentur et ultra ... [illegible] ... climatis quo ad horas ... septimi climatis ... [illegible]

initium primi climatis quo ad quantitatem dierum horarum sed diversitas quo ad gradus est quod sunt ultra climata ... elevationem graduum climatis primi climatis ad 38 gradus. Sed tamen ... Dacia Norwegia ... et ... inferiorem Almaniam ... climata ... quia dispersa ... sed ... alie partes ... et ... quia ... sol ... abilla partibus ... et ... calorem et ... in ... Vel ... sunt ... habitationes ... partibus ... quia ... et ... sunt ... supplicati sunt ... primi climatis ... et ... Ptholomeus in almagesti posuit novem climata ... septem climata ... distinguit ... dimidie hore ... septem dimidie hore ... et ... divisas climatum ... [illegible]

[illegible]

[illegible]

in duos circulos dicitur quod ipse [illegible] duas [illegible]
[illegible] duas dictas ab aliquo [illegible]
intelligit per quas ipse astronomi ab equi-
noctiali usque [illegible]
[illegible] maximam [illegible]
[illegible]
[illegible]
[illegible] Ad [illegible]
[illegible] quod ipse [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
et [illegible] impedimento. Capitulum

Et tamen quod sol sit
quasi [illegible]
proprie movetur sub super-
ficie ecliptice et est eccentricus [illegible]
[illegible] centrum [illegible] eccentricus
et [illegible] qui dividit [illegible]
[illegible] equales [illegible] centrum [illegible]
[illegible] punctum [illegible]
in centro qui maxime accedit ad fir-
mamentum appellatur axis seu auge
qui [illegible] elevatio [illegible]
oppositum qui maxime recedit a
firmamento dicitur oppositum augis [illegible]
est [illegible] et ultimum [illegible]
in quo [illegible] planetarum
et motibus corporum [illegible]
[illegible]
[illegible] planetarum [illegible]
eclipsis [illegible] solis et lune [illegible]
sol sit [illegible]
in duas partes [illegible] parte [illegible]
[illegible] solis et lune et corporum motibus
[illegible] corporum planetarum
[illegible]
[illegible] ad [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible] medio [illegible]
[illegible] que maxime
[illegible]
[illegible] longior [illegible] opposita
augi que maxime accedit [illegible]
[illegible] dicitur oppositum augis vel longi-
[illegible] sed ista duo loca [illegible]
[illegible] que sunt in medio inter oppositum
augis et oppositum augis [illegible]
medie et ista [illegible]
[illegible] quod sol [illegible]
alia [illegible] est
in auge tunc est remotior [illegible] qui
[illegible] est in opposito augis [illegible]
[illegible] et [illegible] quod [illegible] sol [illegible] in
[illegible] est in auge [illegible]
est elevatus [illegible] est in opposito [illegible]
est in opposito augis et tunc [illegible]
[illegible] et quod sit [illegible]
[illegible] post
eccentricum solis [illegible]
[illegible] commentator [illegible]
[illegible] et [illegible]
[illegible] eccentricum
[illegible] ponendo [illegible]
[illegible] ponendi [illegible] vel [illegible]
[illegible]
[illegible] vel [illegible] que omnia
[illegible] sunt impossibilia [illegible]
[illegible]
[illegible]
[illegible] quasi si esset [illegible] eccentricum
[illegible] in una parte [illegible]
[illegible] et in alia parte opposita
[illegible] accedit ad centrum mundi sit [illegible]
[illegible] A [illegible]
ad centrum mundi sit B [illegible]
[illegible] A [illegible] ad
locum B et B ad locum A tunc
[illegible] B est in loco [illegible] A [illegible]
[illegible] quod [illegible] loco [illegible] A
qua A sit [illegible] B vel [illegible]
vel [illegible] ibi [illegible] vacuum
Si aliquid [illegible] B [illegible] quod
B [illegible] simul [illegible] A [illegible]
in loco B [illegible] commentator [illegible] A [illegible]
[illegible] vel [illegible] sequitur scissio
[illegible] que omnia
sunt impossibilia [illegible] Sed in
oppositum est sibi [illegible] et [illegible]

[illegible]



Solis autem ab occidente in ori-
entem duo sunt motus unus
proprius est ei in circulo suo con-
trario qui movetur in omni die ac
nocte 59 minuta fere Alius
vero tardior est motus ipsius
spere super polos augis circuli
signorum et est equalis motui
spere stellarum fixarum scilicet in 100
annis gradum unum Ex hiis
itaque duobus motibus colligitur
motus eius in circulo signorum
ab occidente in orientem
per quem abscidit seu dividit
circulum signorum in 365 die-
bus et quarta unius diei vel
partem modicam qui mel-
lius est possibilitatis vel

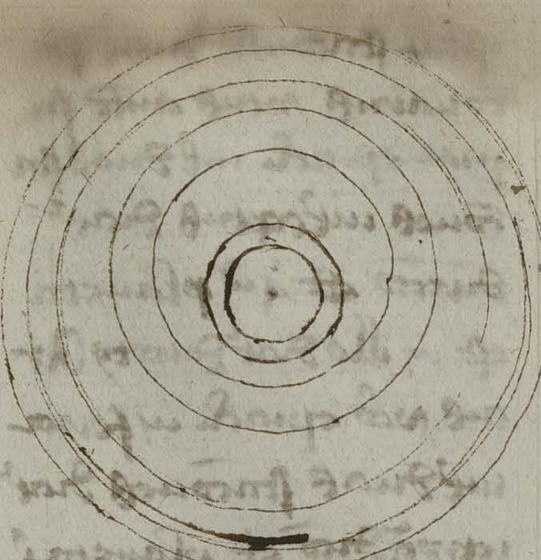
[illegible] parte [illegible] sequitur de motu solis
et dividitur in duas partes in prima ponit duos
motus solis secunda in fine in 3a comparat
comparat itaque duobus et dicit quod sol habet
duos motus quorum unus est motus contrarius quo
omni die perficit unum gradum. Alius
motus est ipsius spere qui fit super polos
zodiaci et est hic motus in contrario
anni perficit unum gradum. Et sic dicit
quod ex istis duobus motibus colligitur
motus solis in octava spera qui com-
pletur in 365 diebus 6 horis
et modicum minus que in illis conti-
nentur. Circa litteram notandum autem dicit
solem hic autem motum unum quem
attribuit sibi in excentrico vel solum
excentrico quod dicit [illegible]
28 secundis et perficit fere 1 circulum
gradum. Alius est motus [illegible] solis
quo ad augem [illegible]
locum maxime elevatum et iste motus
est ad motum octave spere contrarius mo-
tui diurno ad 27 [illegible] hic motus in
[illegible] anno per unum gradum [illegible]
per hos motus secundum astronomos attribuit
soli adhuc unum aliud motum quo
movetur super [illegible] circulis super
caput arietis et libre in 80 annis per
unum gradum et iste motus dicitur motus
accessus et recessus sive motus latitudinis
et dicunt astronomi et est hic motus
accessus et recessus [illegible] que est
in habitabilis reddit habitabile et econverso et est
3us motus solis [illegible] supra addi [illegible]
scilicet motus diurnus quo omni die [illegible]
ab oriente in occidentem [illegible]
est super in celo primo [illegible] ibi [illegible]
itaque [illegible] motum solis quo
ad zodiacum sive in dicto tempore perficit
zodiacum [illegible] perficit ipsum in trecentis
sexaginta quinque diebus et sex horis
[illegible] ut dicit [illegible] sol
in suo excentrico quod dicit [illegible]
per unum gradum [illegible] 30 [illegible] continet
360 gradus [illegible] quod [illegible] tot
diebus zodiacum perficit sive [illegible] quinque

dies 26 hore 1a [illegible] secunda quibus desi-
[illegible] quolibet die [illegible] per [illegible] in [illegible] per
[illegible] non [illegible] horas [illegible]
dies [illegible] anno [illegible] bisextilis [illegible]
habet in opposito. Sequitur autem textus [illegible]

Omnis autem planeta preter solem tres habet
circulos scilicet equantem deferentem et epiciclum.
Equans quidem lune est circulus concen-
tricus cum terra et in superficie ecliptice. Eius vero
deferens est circulus excentricus nec est in superfi-
cie ecliptice immo una eius medietas
declinat versus septentrionem alia versus
austrum et intersecat deferens equantem in
duobus locis et figura intersectionis appella-
tur draco quia lata est in medio et angustior
versus fines. Intersectio illa per quam luna mo-
vetur ab austro in aquilonem appellatur caput
draconis reliqua vero intersectio per quam
movetur ab aquilone in austrum dicitur cauda
draconis. Deferens quidem et equans mercurii
planete sunt equales. Sequitur
[illegible] determinat de circulis et motibus solis
solum hic consequenter determinat de circulis aliorum
planetarum et motibus eorum et dividitur in duas
partes in prima facit [illegible] in 2a ostendit que accidunt
que contingunt motibus planetarum [illegible]
[illegible] Circa litteram notandum
equans [illegible] est verus circulus in celo sed solum
imaginarius [illegible] si esset talis circulus
[illegible] in deferente et [illegible]
eius motum [illegible] possibile
[illegible] equans est circulus imaginarius
concentricus terre equalis suo deferenti [illegible]
cuius deferentis [illegible] centrum [illegible] in deferente
[illegible] equans [illegible]
circulus in orbe [illegible] imaginatus [illegible]
imaginarie [illegible] signa [illegible] signiferi

et dicitur equans isto quia maiore motu deferentis
exterioris punctum circumferentie in se ipso et eodem
motu deferentis redeunt ad idem. Et mo-
tiorem et tardiorem motu deferentis reddunt
adequa. Et dicitur equans ideo quia equat lunam
ut alium planetam quo ad signa et gradus
signorum. Et sic non invenitur ponendi equante
et quia deferens eum equale quantum ad
uniforme et equale. Et ideo si volo
scire motum lune in deferente et in equante
et in eius centro adequante ubi in ve-
ritate omnibus computatis luna movetur. Quibus
dicitur et non de deferente deferens lune
et similiter deferens totus lune equet. Et
deferente solis in eccentricitate et dicitur ab
deferente eo in situ et in motu. Insuper deferens
solis est in superficie ecliptice et deferens
ecliptica deferens vero lune distincti ab eclip-
tica ut dicitur in lune motu dicitur quod solis
sic deferente est equa motu et uniformi
circa centrum proprium sed inequaliter circa centrum
terre. Sed equans deferens lune est equalis
motus circa centrum terre inequaliter vero circa
centrum suum proprium. Et preter solem non
oportet equante. Et sic dicitur quod deferens in-
terat equante et cetera in effectu dicitur draco
caput non caput et cauda draconis non sunt
aliquid nisi quedam puncta in celo in quibus
circulus planete lune et alia veniunt in
sinuendo et in aliis punctis et in istis punctis
luna ... eclipsis de qua dicitur plenius et
infra. Et sic dicitur in fine ... quod deferens
et equans sunt equales unde ... ponitur
equales ... ut non ... quodam
dicitur planeta in die motu ... et tunc
sunt quinto de tercio deferentis omnibus co-
putatis phisimus secundum ... distanc

Et sciendum quod tam deferens
quam equans saturni iovis
martis veneris mercurii sunt



eccentrica et est superficiei
ecliptice et omnes alie duo
sunt in superficie eadem quibus
est planeta preter solem ha-
bet epiciclum Et est epi-
ciclus circulus parvus per cuius
circumferenciam defertur corpus pla-
nete Et centrum epicicli per
deferentis circumferenciam defertur
Et ergo dicuntur ...
arcus ... in circulo
epiciclo unus est pars orientalis
reliqua est pars occidentalis super-
ius est pars orientalis Et secundo
... punctus ... est pars
occidentalis Et secundo secunda
Et quando planeta est in ...

stacio stacionaria dicitur sta-
cionarius arcus autem su-
perior epicicli vel duas sta-
ciones interceptus dicitur
directus et quando planeta
est in illo dicitur directus Ar-
cus vero epicicli inferior
inter duas staciones dicitur
retrogradus et planeta in
ipso existens dicitur retrogradus
Propter autem hoc non asse-
quitur statio directa vel
retrograda vero non dicitur
linea stacionaria directa
vel retrograda propter velo-
citatem motus in epiciclo
ut patet in figura prefigura-
ta infra

[illegible] parte a
orbibus aliorum planetarum
... in duas partes superior ... declinat
deorbibus ... deorbibus
... est autem epiciclus ...
... equans ...
saturni iovis martis ... ecentri
declinat ab ecliptica ...
superficie ... planetarum ...
epicicli ... declinat
... epiciclus ...
... superius ecentricitas ...
planete ... centrum epicicli
... in circumferencia deferentis ...
... planete in
epiciclo ... dicitur ...
linee recte a centro ... planetis

epicicli ... circulus ...
... stacio
... stacio
... planeta ... in aliquo ... punctorum
... stacionarius ... epicicli superior
in ... puncta ... directus ...
planeta ... in hoc arcu ... directus arcus
vero inferior in epiciclo dicitur retrogradus et
planeta ... in illo arcu dicitur retrogradus
... velocitas
... deferens saturni et
alterius planete ... circulus superius
circumferencia ... epicicli ... centrum equantis
... equans planetarum ab astronomis ita
... quia astronomi viderunt quod centrum
epicicli planetarum non movebatur equaliter
super centrum mundi nec eciam ... super
centrum deferentis in veniunt ... quoddam punctum
circa quod centrum epicicli in equalibus temporibus
equales describit ... angulos ... orbe
circa ... punctum ... equantem
... ambo isti circuli sunt ecentrici
in ... abc ... centro ...
... centrum mundi
... planeta ... epicicli
... quia quilibet planeta declinat ab
ecliptica vel ... versus austrum vel
aquilonem sol vero numquam declinat ab
ecliptica ... epicicli ...
... ideo necesse
... deferentis ... deferens
... epiciclus defert
... planete ... epiciclo
... circulus ... circulus
... super aliud magnum ...
... planete defert
... circumferencia epicicli ... epicicli
... circumferencia deferentis ...
... possibile ...
... planete ...
... epicicli ...
... epiciclus ...
... deferentem ...
... alias ... centrum ... in circumferencia

[illegible] [illegible] [illegible] quam [illegible] placuerit [illegible]
[illegible] [illegible] p[er] circumferentiam deferentis [illegible]
intelligit circulum descriptum a centro epicicli
[illegible] orbe deferente [illegible] [illegible]
[illegible] epicicli intelligit [illegible]
circulum descriptum a centro [illegible] planete
in [illegible] epicicli [illegible] quia ita centra
describunt istos circulos [illegible] [illegible] [illegible]
in [illegible] theorice planetarum [illegible]
movet [illegible] circumferentiis ipsorum circulorum
[illegible] descriptorum [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in [illegible] planetis in-
ferioribus superioribus isti epicicli aliter [illegible]
aliter [illegible] volvuntur ita quod epiciclus saturni
[illegible] revolvitur quam epiciclus iovis et epiciclus
iovis [illegible] quam martis [illegible] [illegible] [illegible] [illegible]
orice planetarum quodcumque illorum [illegible] pla-
netarum [illegible] [illegible] [illegible] suum epiciclum
in quanto tempore sol revertitur ad coniunctionem
cum media [illegible] quia solaris [illegible] ad
[illegible] media saturni [illegible] iovis [illegible]
ad [illegible] iovis [illegible] martis [illegible]
colligitur [illegible] [illegible] [illegible] [illegible] deferentis [illegible]
[illegible] superioribus fuerit maior tanto epiciclus
[illegible] minor planete aut sit movetur in
epiciclo quod in parte [illegible] [illegible] ab oriente
in occidentem [illegible] parte [illegible] ab oriente
in occidentem quod [illegible] [illegible] [illegible] [illegible]
[illegible] macula [illegible] apparet cum capite [illegible]
[illegible] [illegible] [illegible] [illegible] puncta [illegible] epi-
ciclo [illegible] statio non quod planeta [illegible] ipsius
[illegible] [illegible] quiesceret [illegible] [illegible] quia planeta
[illegible] [illegible] [illegible] augmentum [illegible] diminuit
[illegible] [illegible] zodiaco [illegible] [illegible] [illegible]
[illegible] planeta dicitur stationarius quia non [illegible]
[illegible] ad [illegible] sed [illegible] planeta [illegible] in parte
superiori epicicli tunc fuit [illegible] [illegible] [illegible]
[illegible] [illegible] quod [illegible] [illegible] ab occidente
orientem [illegible] successio signorum [illegible]
[illegible] [illegible] augmentat [illegible] [illegible] directus
[illegible] [illegible] inferiori parte epicicli fuit [illegible]
ab oriente [illegible] occidentem [illegible] successionem
signorum [illegible] [illegible] stat [illegible] [illegible]
zodiaci [illegible] planeta [illegible] retrogradatur
[illegible] retrogradi [illegible] [illegible] successionem signorum

[illegible] [illegible] planete [illegible] [illegible]
in epiciclo [illegible] [illegible] [illegible] equalitatem
velocitatis sue fuit in directione [illegible]
stationis [illegible] in retrogradatione [illegible]
velocius [illegible] tardius moveri [illegible] quo
[illegible] [illegible] signorum [illegible] [illegible] [illegible]
puncta augmentat [illegible] [illegible]
alio [illegible] diminuit [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] in epiciclo
qui [illegible] stationaria [illegible] retrograda
[illegible] directa [illegible] [illegible] velocitate sui
motus ut [illegible] [illegible] [illegible] [illegible] patent
in [illegible]



Cum autem sol sit maior terra [illegible]
est quod [illegible] [illegible] terre a sole [illegible]
[illegible] umbra terre extensa [illegible]
[illegible] [illegible] in [illegible]
[illegible] deficit in superficie circuli signorum
in [illegible] ~~[illegible]~~ solis [illegible] aut [illegible]
[illegible] puncto [illegible] opposito soli in firmamento

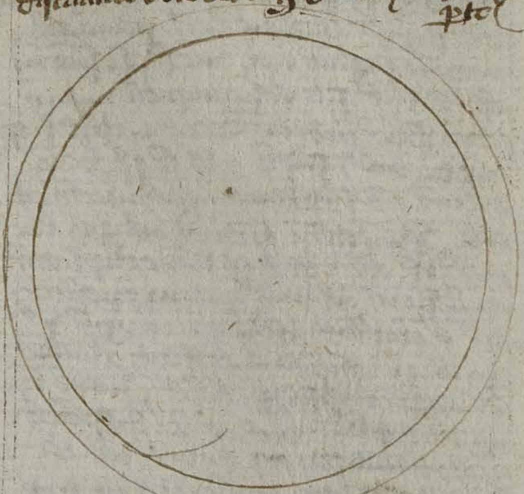
[illegible] in plenilunio luna fuerit in [illegible]
parte aut in cauda draconis [illegible]
[illegible] fuit [illegible] in [illegible] soli [illegible]
[illegible] [illegible] [illegible] super corpus lune
[illegible] [illegible] luna lumen non habeat nisi a sole
in veritate deficit a lumine [illegible] eclipsis
[illegible] si fuit in capite vel in cauda
~~parte [illegible]~~ [illegible] draconis ~~[illegible]~~ directe

Videlicet vero si fuerit [illegible] nisi
sua medietas eclipsi [illegible] eclipsis
in plenilunio ut certa coniunc-
tione patebunt. figura in sua
[illegible] 2a parte [illegible] ultimi capituli in
qua a[illegible] [illegible] de eclipsi lune et [illegible] causis
earum et dividitur in duas partes
quarum prima determinat de eclipsi lune in 2a
de eclipsi solis [illegible] ibi [illegible] autem
luna fuerit ~~prima pars adhuc~~
~~dividitur in duas partes [illegible]~~
prima pars adhuc dividitur in partes in
prima [illegible] premittit quedam preambula [illegible]
de opposito [illegible] in 2a parte [illegible]
eclipsis lune [illegible] in [illegible] plenilunio [illegible]
et in tenebris [illegible] ista [illegible]
[illegible] maior terra [illegible] [illegible] medietas [illegible]
terre illuminatur [illegible] umbra terre
piramidaliter extensa in aere
[illegible] [illegible] in rotunditate
[illegible] ad zodiacum in quo [illegible] nadir
quod [illegible] soli oppositum [illegible] firma-
mento [illegible] [illegible] [illegible]
sequentium premittit [illegible] [illegible]
[illegible] quam post [illegible] [illegible]
[illegible] in [illegible] [illegible] [illegible]
[illegible] 2a [illegible] [illegible] ubi [illegible]
corpus sphericum magnum luminosum illuminat
corpus sphericum minus sibi [illegible]
[illegible] [illegible] sol [illegible] corpus sphericum
[illegible] terra vero corpus sphericum minus
ut [illegible] ptolomeus 2a [illegible] libri al-
magesti [illegible] solem esse maiorem
terra [illegible] [illegible] [illegible]
[illegible] medietas terre illuminatur a sole [illegible]
[illegible] [illegible] [illegible] [illegible] umbra terre
piramis rotunda cuius basis [illegible]
superficie [illegible] [illegible] nadir sol
in firmamento [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] umbra terre extensa in aere
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] luna [illegible] [illegible]
[illegible] [illegible] illuminata
[illegible] in plenilunio [illegible] in opposito [illegible]
[illegible] [illegible] [illegible] corpus

[illegible] [illegible] sol aut corpus sphericum [illegible]
[illegible] [illegible] non [illegible] soli [illegible] determinat
de eclipsi solis et lune non aliorum planetarum
[illegible] [illegible] [illegible] eclipses [illegible] planetarum
maiores sunt notabiliter quam eclipses
aliorum planetarum [illegible] plus sensui appa-
rent [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
de eclipsibus [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] piramidalem [illegible] [illegible]
nadir [illegible] nadir solis [illegible]
[illegible] opposita soli [illegible] ut si sol
esset in [illegible] [illegible] nadir [illegible]
esset in [illegible] capricorni [illegible] si sol esset
in [illegible] puncto [illegible] nadir [illegible]
[illegible] puncto libre [illegible] luna in ple-
nilunio [illegible] [illegible] puncto nadir
in capite draconis vel in cauda [illegible]
non declinet [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] si declinat
nadir solis aliquantulum [illegible] [illegible]
non erit eclipsis lune [illegible] [illegible]
[illegible] [illegible] eclipsis lune [illegible] [illegible]
[illegible] [illegible] [illegible] sol et luna
[illegible] [illegible] cauda vel capite draconis
[illegible] [illegible] [illegible] in cauda et aliud [illegible]
[illegible] [illegible] [illegible] sol et luna non sit
in cauda vel capite draconis [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in plenilunio [illegible]
ista parte [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] eclipsi lune et [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] fuit opposito solis et lune et
luna fuerit in capite vel in cauda draconis
[illegible] [illegible] [illegible] [illegible] nadir solis
[illegible] [illegible] solem et lunam et
[illegible] causa eclipsis lune [illegible]
[illegible] luna non fuerit in cauda vel capite
draconis [illegible] [illegible] fit eclipsis [illegible]
[illegible] [illegible] eclipsis lune [illegible]
[illegible] [illegible] terre [illegible] corpus solare
et corpus lunare [illegible] [illegible]
[illegible] [illegible] [illegible] illorum [illegible]
medietas [illegible] [illegible] illorum [illegible]
eclipsis lune [illegible] [illegible] [illegible]

corde ipse eclipsi [illegible] quando eclipsatur
in [illegible] sit [illegible]
sit non [illegible] eclipsis lune non [illegible] alia in va[illegible]
opposito solis et lune [illegible] sine [illegible] opposita
solis et lune sit [illegible]
[illegible] opposita [illegible] luna [illegible] in capite
vel in cauda draconis [illegible] non est
in opposito [illegible] sol nunquam declinat ab ecliptica
[illegible] supra [illegible]
luna declinat ab ecliptica [illegible]
opposita [illegible] sub ecliptica
vel sit in cauda vel in capite draconis
[illegible] in opposito [illegible] in cauda
vel in capite draconis [illegible]
ab ecliptica [illegible] opposita [illegible]
opposito [illegible] in opposito [illegible] sole [illegible]
[illegible] linea [illegible] transiens per [illegible]
[illegible] centra [illegible] transit per [illegible]
[illegible] corpora [illegible] sole [illegible]
luna [illegible] in umbra [illegible] fit
eclipsis [illegible] non [illegible] in opposito
[illegible] solis et lune [illegible] equalis [illegible] punctualis
[illegible] in [illegible] motus [illegible]
[illegible] punctualis [illegible] linee [illegible]
motus [illegible] ~~sit una linea non in~~
[illegible] puncto firmamenti [illegible] linee
sit una linea non solum in oppositione [illegible]
punctualis sit eclipsis lune [illegible] equalis
[illegible] in quolibet [illegible] non [illegible]
[illegible] luna non [illegible] lune [illegible]
[illegible] in [illegible] ante [illegible]
[illegible] millesimo [illegible] puncto
lune [illegible] fit [illegible]
[illegible] in eclipsi lune non videmus
lunam [illegible]
[illegible] lune [illegible] dicitur
[illegible] non [illegible] aliquod lune [illegible]
[illegible] notabiliter apparet luminosa
[illegible] lune [illegible] in [illegible]
de eclipsi universali [illegible]
[illegible] lune universalis [illegible]
lune obumbratur [illegible]
[illegible] aliquas partes [illegible] lune eclipsari
[illegible] totum corpus lune [illegible]
[illegible] luna [illegible] in capite vel in cauda draconis
[illegible] sit [illegible]

subradium solis [illegible]
[illegible] mundi [illegible] transit per [illegible]
solis et lune [illegible]
[illegible] metas capitis vel caude draconis
[illegible] metas [illegible] astronomos [illegible]
distantia duodecim [illegible] contra [illegible]
[illegible]



[illegible] cum in qualibet oppositione [illegible] in ple-
nilunio non sit luna in capite vel
cauda draconis vel supposita nadir
solis non [illegible] in quolibet plenilunio
lunam pati [illegible] sit [illegible]
[illegible] aliqui [illegible]
[illegible] eclipsis lune solum est
in plenilunio [illegible] oppositione [illegible]
plenilunium [illegible] omni oppositione
debet fieri eclipsis [illegible] non
oportet quia non in omni oppositione
sol et luna opponuntur diametraliter [illegible]
vel in omni oppositione fit eclipsis lune
[illegible] solis [illegible] luna [illegible] in capite vel
cauda draconis sub nadir solis vel
[illegible] metas ut dictum [illegible] supra [illegible]
[illegible] non [illegible] luna [illegible] metas eclipsi-
[illegible] possibile [illegible] eclipsari non [illegible]
[illegible] ibi eclipsatur [illegible]
[illegible] ibi in [illegible] eclipsis [illegible]
[illegible] latitudinis [illegible] solis
[illegible] puta [illegible] vel quatuor [illegible]
[illegible] latitudinis [illegible]
duodecim [illegible] non [illegible] eclipsis [illegible]
modo [illegible] latitudinis lune
[illegible] duodecim [illegible] solis [illegible]
luna sit in auge [illegible] sol
sit in opposito [illegible] non
[illegible] eclipsis [illegible] modo [illegible]

eclipsium

[illegible]

opponitur dicit quod tunc eclipsis lune non apparebit quod non est 2a. Item assignatur eclipsis lune cum fuerit in signis frigidis et humidis frigiditatem [illegible] in proximo tempore secuturo nisi superveniat impeditum aliunde. Et si fuerit in signis aquaticis tunc significat habundantiam pluviarum et maxime si fuerit in yeme. Et si fuerit in estate tunc significat temperamentum maris et consimiliter intelligendum est in aliis signis iuxta naturam signorum et sic est verum dummodo non superveniat impedimentum aliunde. Utrum tamen sit verum eclipsis lune maior est quando tota luna eclipsatur quia deficit a lumine prima in superficie quam in superficie solari et argumentum quod non quia numquam luna deficit a lumine quia numquam eclipsatur deficit lumine et numquam eclipsatur quia autem probatur nec continue dispositione semper luna sit in umbra tunc est illuminata et colorata ut patet per Ptholomeum in 2o quadripartiti. Secundo argumentum sicut luna non deficit a lumine in superficie in qua venit inter solem et ipsam sic nec in superficie opposita tunc quia cum terra sit maior terra et non sit tam illuminata sol in computacione umbram facit minorem quam terra in superficie ipsa in superficie opposita in sole et lunam potius eclipsabit ipsum in terra [illegible] sit et sic sit superficie lune in opposito eclipsis alterius eclipsis esset equalis in duobus latitudinis lune continue equali a loco solis et quia probat deficit quod fiunt umbra tunc est equalis et dicitur umbris in loco sicut lune et equalis constitutas [illegible] in conspicuitatem in duabus eclipsationibus ut plurimum adsunt [illegible] aliquotiens dividuntur et equalitas eclipsium esse in equalitate dicto sit sicut [illegible] luna non sit maior terra sicut tunc quia luna sit aliquo terra umbra tunc non possit eam eclipsare Et stellas quas probat quia multas stellas [illegible] luna et maior et est luna et maior terra et quia per alfraganum dicitur quibus stellarum visibiles perceptibiles et maior tota terra et sic luna et aliqua stellas tunc est maior terra et quia sunt ...

quia per eam videtur et numquam maior [illegible] magnitudine quam regressive [illegible] luna multas stellas eclipsat et [illegible] et sic ut [illegible] equalis [illegible] luna eclipsat stellas fixas tunc [illegible] magnitudinis lune plus tunc equalis distat sicut stellarum fixarum quas eclipsat. Quarto sic si sic conspiciuntur per terram eclipsim [illegible] matutinam quod umbra tunc [illegible] matutinam [illegible] ad [illegible] matutinam in terra [illegible] ut patet per rationem in [illegible] eclipsatur luna [illegible] non potest eclipsari matutinam [illegible] conspectus quod probat quod numquam [illegible] fuisset eclipsata secundo [illegible] maxime esset in opposito [illegible] quia [illegible] in luna [illegible] quia probat quod tunc non possunt [illegible] pariter sole continue supra orizontem quia [illegible] in oppositione vel sol et luna sunt oppositi per diametrum et si unus est super orizontem reliquus est sub in terra [illegible] experientia [illegible] eclipsari solem sepius [illegible] lunam eclipsari sole et luna visis super orizontem ut patet [illegible] oppositum [illegible] patet [illegible] Ptholomeum [illegible] Almagesti [illegible] astronomos [illegible] lune non [illegible] verum solis [illegible] lune [illegible] non eclipsat [illegible] terra [illegible] solem [illegible] radii solis [illegible] luna et luna non eclipsatur [illegible] loco solis [illegible] lune [illegible] eclipsis [illegible] in equalis latitudinis [illegible] esse [illegible] luna [illegible] eclipsis [illegible] opposito [illegible] eclipsis [illegible] sol [illegible]

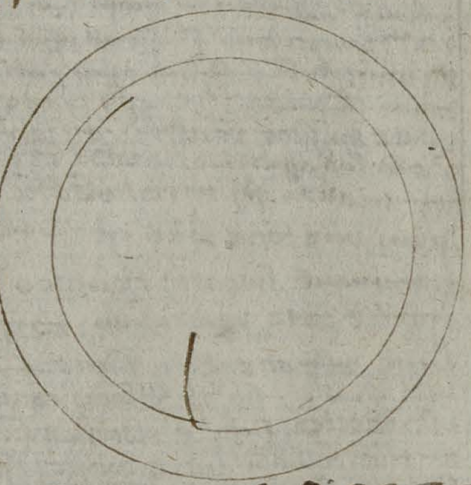
[illegible] esse [illegible] in duabus [illegible]

[illegible] videtur [illegible]

[illegible] luna appropinquat ad oppositum augis [illegible] ... fit ibi [illegible] ... [illegible]
... [illegible] in eclipsi ... [illegible] eclipsis ... [illegible]
... [illegible] ... plura ... alia stella fixa visu ... distantia ... [illegible]
... [illegible] ... quia ista luna ... eclipsis facit stellas fixas ... maior ...
... minor quantitas appropinquior ... [illegible] ... mediator ... ut
quia ... umbrositas ... ad approximationem ... distat a sole plus vero
... non potest umbra ... super corpus ... accidit ab ea eclipsis ... [illegible]
consequentia ... ut ... [illegible]
luna eclipsatur in vera oppositione solis et luna non potest ... in eclipsi solis et
luna ... per radios ... visibilis dicitur esse super orizontem ... adhuc ... sub orizonte ... materia
eclipsis lune ... [illegible]

Cum autem fuerit luna in capite vel in cauda draconis vel prope infra terminos
in quibus ... cum sole ... corpus lunare in ... aspectum inter ... corpus solare ... obumbrat nobis claritatem solis
... sol patitur eclipsim non quia ... lumine ... quia deficit nobis ... interpositionem lune inter aspectum nostrum
sicut patet in ista figura. ... ... esse eclipsis solis in ... fuit in nonnullis ... partibus ... eclipsis solis
... ipsa ... [illegible] ... post ... eclipsim solis ... [illegible]
... [illegible] ... eclipsis solis ... tempore ... quando ... luna fuit in capite vel in capite draconis ... eclipsis solis ...
... [illegible] ... eclipsis solis ... [illegible] ... eclipsis solis luna ... [illegible] ... latitudinis non ... [illegible]

... [illegible] ... diversitatem aspectus ... latitudinis ... ut ... contingit ... visibilis ... non fit eclipsis ...
... eclipsis solis ... quanto fuit ... latitudinis ... distat ab auge ... signa quia ... non ... eclipsis ... cum luna fuit
in capite vel in cauda draconis ... in auge ... solis ... opposito augis ... eclipsis ... [illegible]
... luna ... apparet sub sole ... lumen ... apparet ... solaris ... opposito augis ... apparet maior ... solis remanet lucidus ... obumbrabit ... figuratur eclipsis solis ... [illegible]



Non dico ... eclipsis lune ... est eclipsis in omni terra ... est eclipsis solis ... in ... climate est eclipsis in alio non
quod contingit ... diversitatem aspectus in diversis climatibus ... [illegible]
... eclipsis ... [illegible]
Defectus lune et solis varios ... labores.

[margin: penes] [margin: omnes etiam] [margin: in quo] [margin: diversitas] [margin: quia]

[illegible] pro [illegible] ponit [illegible] in eclipsi solis et lune [illegible] et in [illegible] correlationibus [illegible] gratitudo ibi [illegible] [illegible] quod dicit [illegible] quod eclipsis lune fit universalis quo ad totam mundum eclipsis vero solis [illegible] [illegible] et illa est diversitas aspectus et subditur quod [illegible] [illegible] [illegible] anglicos eclipsim [illegible] [illegible] defectus lune et [illegible] [illegible] [illegible] quod eclipsis lune apparet in omnibus climatibus et ista quia luna est maior terra [illegible] [illegible] [illegible] in umbram apparet [illegible] ubique [illegible] eclipsata [illegible] eclipsis solis non apparet ubique [illegible] ista qui sol est multo maior luna [illegible] luna non potest impedire ab eo radios solis in climate isto sol [illegible] est super lunam [illegible] tangit magister in [illegible] diversitatem aspectus [illegible] quo non diversitas aspectus [illegible] [illegible] aspectus [illegible] arcus zodiaci [illegible] in [illegible] locum lune et solis [illegible] apparentem et visibilem [illegible] [illegible] colligi [illegible] [illegible] [illegible] [illegible] aut [illegible] [illegible] in latitudine [illegible] longitudine diversitas aspectus in longitudine est luna apparet orientalior vel occidentalior [illegible] in [illegible] diversitas vero aspectus in latitudine [illegible] quia luna apparet meridionalior vel septentrionalior [illegible] [illegible] Item verus locus solis est puncto terminans lineam exeuntem a centro terre per centrum corporis lune ~~usque ad orbem signorum~~ usque ad orbem signorum [illegible] locus apparens ~~usque ad orbem signorum locus apparens~~ [illegible] puncto terminans lineam exeuntem a ~~[illegible]~~ [illegible] [illegible] ad zodiacum [illegible] ~~[illegible]~~ [illegible] lune [illegible] arcus [illegible] [illegible] duo puncta est diversitas aspectus ut [illegible] figura. Et ista diversitas [illegible] variatur [illegible] [illegible] elongationem lune a terra quanto enim [illegible] [illegible] tanto [illegible] diversitas aspectus et quanto longior est a terra [illegible] [illegible] planetis superioribus [illegible] [illegible] diversitas [illegible] [illegible] elongationem a terra [illegible] [illegible] [illegible] elongationem lune [illegible] [illegible] ~~elongationem~~ quanto [illegible] [illegible] propinquior [illegible] diversitas [illegible] [illegible] [illegible] [illegible] diversitas

[margin: [illegible]] [margin: [illegible]] [margin: [illegible]]

[illegible] vero et visibilis locus lune [illegible] [illegible] in diversis regionibus [illegible] [illegible] diversitas [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible] eclipsis [illegible] eclipsis solis fit [illegible] [illegible] lune [illegible] ita diversimode apparet [illegible] eclipsis solaris [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] defectus [illegible] [illegible] eclipsis lune [illegible] diversimode [illegible] [illegible] [illegible] [illegible] [illegible] in illis [illegible] [illegible] [illegible] [illegible] sol in eclipsi sua [illegible] [illegible] lumine [illegible] [illegible] [illegible] [illegible] splendida [illegible] fit cum eclipsis [illegible] [illegible] radios [illegible] [illegible] [illegible] [illegible] [illegible] lune [illegible] [illegible] [illegible] radii [illegible] sol [illegible] eclipsari [illegible] figura [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis [illegible] [illegible] passione [illegible] et eadem passio [illegible] [illegible] [illegible] [illegible] eclipsis solis non [illegible] [illegible] [illegible] miraculosa et contraria [illegible] quia eclipsis solis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pagina [illegible] in eadem passione [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] eclipsis solis [illegible] [illegible] ut puta in plenilunio ut [illegible] [illegible] eclipsis [illegible] [illegible] [illegible] miraculosa [illegible] [illegible] eclipsis que fiebat in passione domini [illegible] figura ista figura [illegible] stare cum textu [illegible]



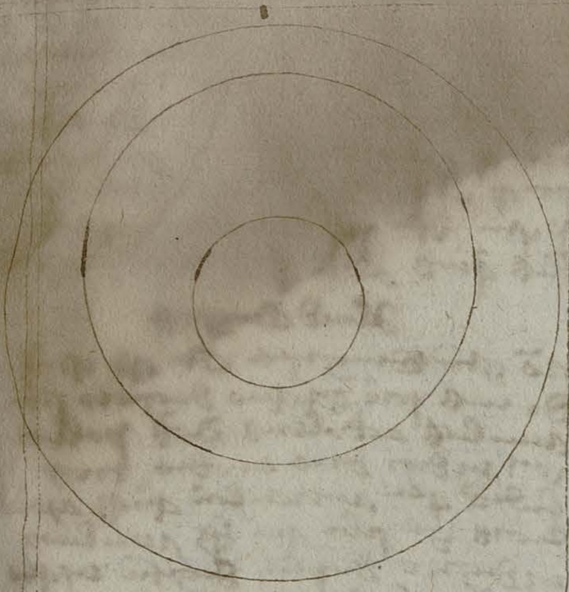
[illegible] fuit plurimum [illegible] non
civitas athenensis que fuit divisa in tres partes
principales scilicet in partem superiorem in qua fuit
situata arx ubi milites habitabant unde
illa pars fuit consecrata marti deo martis et
partem palladis in qua habitabant viri bellicosi
et fuit dedicata deo belli. Et in parte que
ariopagus dicebatur in qua habitabant philosophi et
in qua parte erat studium et dicitur ariopagus
ab ares quod est virtus et pagus villa quasi
villa virtuosa quia ibi erat tota virtus civitatis
et ipse et tercia parte erat iste dionisius
de quo dictum est qui fuit tunc maximus philosophus
in astronomia. Et licet tunc athenis studentibus
in astronomia in die passionis domini existente luna
opposito solis et lune tunc dixit eis quod
impossibile esset in oppositione sicut planetarum in
sole eclipsari quibus videntibus sol stetit
eclipsatus. Unde presente tota corona studentium
dixit. Aut deus nature patitur aut tota machina
mundi dissolvetur. Et propterea quando videt mundum non
concipere potuisse deum nec esse passionem
fecit construi unum altare in templo palladis
in nomine illius dei qui tunc patiebatur ~~[illegible]~~ et
dicebatur altare dei ignoti quia ibi adorabatur
tunc pluraliter et deorum tamen gentiles
adorabant. Et cum sanctus paulus venisset
athenas et predicasset ibi filium dei vivum in-
trans templum palladis in frequentia de
singulis aris deorum tamen in frequentia
dicta ara reperit hec esse conse-
crata in honorem illius dei propter quem
fiebat eclipsis solis miraculosa. Et tunc
videns sanctus paulus dixit. Quem vos igno-
rantes colitis hunc ego annuntio vobis.
Tunc dionisius ~~sanctus sanctus et respondit~~
ariopagita cum multis magistris conversus est
ad fidem. Et postea sanctus dionisius sanctus
predicavit in francia et ibi convertit
gallicos et postea sanctus est episcopus
domini pape nomine necessitatis migravit
ad christum.

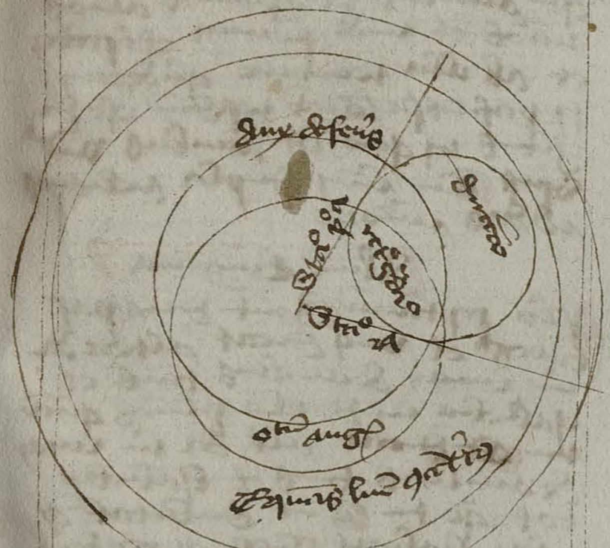
Contra latitudinem quantum vero eclipsis solis
in novilunio contingat et in oppositione
lune in boreali aspectu et in austro solis et
contingit quando non est impossibile quod sol eclipsetur
[illegible] aspectus pro [illegible] quia possibile est solem
deficere aliunde [illegible] quam [illegible] pro distantia
eclipsis [illegible] aspectus pro [illegible] quia sol est lumen

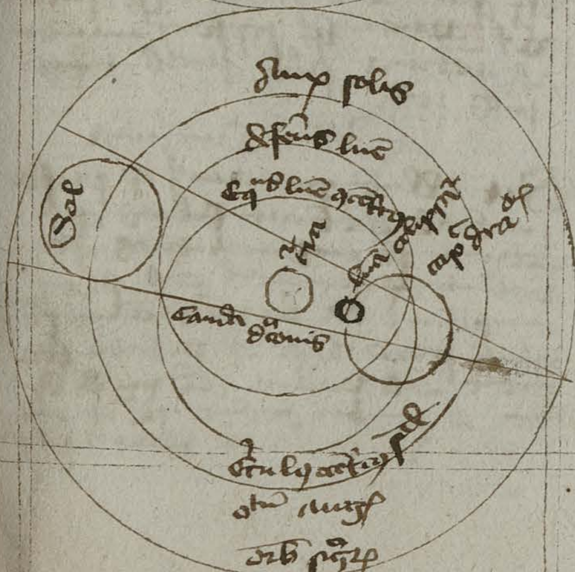
[illegible] non sit [illegible]
[illegible] possibile est deficere aliunde
[illegible] sequitur quod in oppositione veneris
et martis in boreali aspectu et in austro solis
contingeret solem eclipsari quia tamen quando veneris
et mercurius sibi divisim supponuntur ut
patet ptholomeo distinctione octava almagesti
et cum quilibet eorum sit minor luna ut patet
de se primo secundum oppositum dicitur si sit secundum
quod in eorum coniunctione non esset eclipsis solis
quibus [illegible] quod probatur
quia sic patet in tercia dictione almagesti tunc terra
est proportionalis quantitas respectu superfi-
ciei spere lune et distantia per quam superficiei
lune correspondent partes distantie superficiei
terre et non obstante quod in vera coniunctione
luna sit contra finos ecclipticos propter
sue latitudinis adhuc possumus in terra
deambulare in superficie terre ad oppositum
latitudinis lune quousque videt solem et lunam
vel aliquam partem eius in eadem linea aspectus
et per consequens in vera coniunctione fiet eclipsis
solis. Verbi gratia si latitudo lune sit septentrionalis
ut quinque duorum graduum in meridiano
in oriente possumus ambulare secundum latitudinem
in superficie terre quantum correspondet de
duobus gradibus superficiei lune versus
septentrionem et tunc videt lunam
et solem in eadem linea aspectus et sic
videt eclipsim solis omnis in illa
parte versus septentrionem. Dicto sic si sol
sequitur quod non luna eclipsat stellas
fixas vel planetas cum esset in coniunctione
ipsorum cum sit [illegible] quia astronomi non
ferunt mentionem nisi de eclipsi solis [illegible]
est quia si luna potest eclipsare solem qui
est maior qualibet stella fixa tunc etiam potest
eclipsare stellas fixas cum sunt a
sole [illegible] luna [illegible] sole [illegible]
non potest eclipsare lunam solem autem patet
ptholomeo dictione tercia almagesti [illegible]
quod sol est [illegible] luna [illegible] respectus
et quadraginta [illegible]
eius et secundum rationem [illegible] proportionem
diametri solis ad diametrum lune [illegible]
tamen cum luna sit [illegible] sole [illegible] non potest
tegere solem [illegible] eclipsare ultimo
arguitur sic possibile est aliquam eclipsim solis
fieri in vera oppositione et non solum

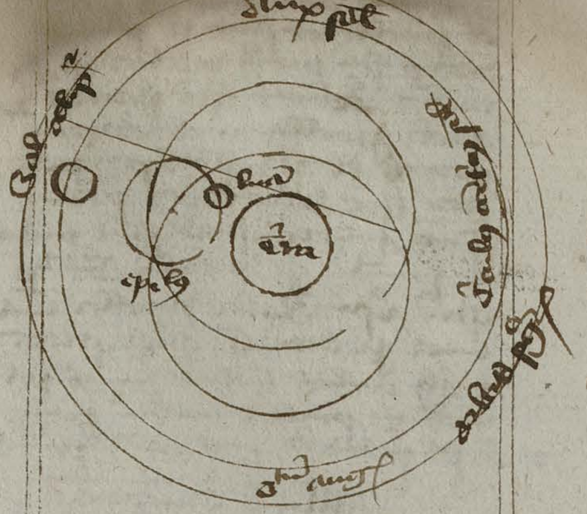
[illegible] ne [illegible]
[illegible] aliqua eclipsis fuit [illegible] oppo-
sitione possibile est adhuc aliquid si una
oppositionem quia [illegible] ad [illegible]
[illegible] quod [illegible] autem [illegible] eclipsis
solis in possibile ut [illegible]
oppositum [illegible] ia [illegible]
tunc autem luna fuit in capite [illegible]
questionem [illegible] eclipsis solis [illegible]
[illegible] [illegible] et [illegible]
[illegible] non est aliud [illegible] interpositio
lune [illegible] aspectum [illegible] solem [illegible]
[illegible] non [illegible] quando solis
et lune sit media [illegible] visibilis [illegible]
[illegible] media [illegible] medij [illegible]
solis et lune sunt in eadem [illegible]
[illegible] eodem puncto zodiaci [illegible]
[illegible] [illegible] sol et luna sunt
[illegible] puncto zodiaci [illegible]
motor [illegible] visibilis [illegible]
sol et luna sunt sub eodem [illegible] aspectus
et in eadem linea visibili distantes
ab [illegible] quando visibilis [illegible] tempus
[illegible] diversitatem aspectus in lo-
ngitudine et latitudine [illegible]
[illegible] eclipsis solis [illegible]
[illegible] quando visibilis [illegible]
ad quod [illegible] possibile
est [illegible] aliquid [illegible] esse [illegible]
visibilis [illegible] qua sol nobis deficit [illegible]
et non [illegible] interpositionem lune [illegible]
[illegible]
[illegible] ad [illegible]
[illegible] apparitionem [illegible] eclipsis
solis non est defectus luminis solis [illegible]
luminis [illegible] interpositionem lune
et solem [illegible] aspectum [illegible]
[illegible] [illegible] apparitionem
[illegible] [illegible] mercurius eclipsat
solem [illegible] sub eclipticam
[illegible] sole [illegible] dici [illegible]
mercurius [illegible] lune [illegible]
[illegible] apparent nobis venus [illegible]
[illegible] super orizonte [illegible] non obstante
[illegible] venus et mercurius esset [illegible] aspectum
[illegible] solem [illegible] non [illegible] solis
eclipsat [illegible] lune [illegible]
mercurius apparent illuminata [illegible]
[illegible] apparitionem [illegible] quando [illegible]
[illegible] eclipsis [illegible] ad [illegible]

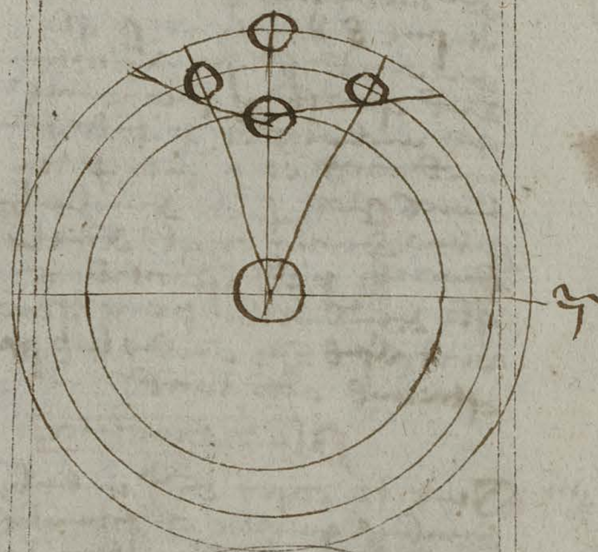
[illegible] cum [illegible] terra [illegible]
[illegible] aliquibus [illegible]
[illegible] ad [illegible]
[illegible] eclipsibus aliarum stellarum [illegible]
[illegible] non [illegible]
[illegible] lumine [illegible] non [illegible]
illuminatur terra [illegible] lumine sol [illegible]
[illegible] eclipsim non [illegible]
[illegible] dici quod eclipsis aliarum stellarum [illegible]
[illegible] [illegible] loquitur de [illegible]
lune cum aliis stellis [illegible]
[illegible] [illegible] questio [illegible]
dico quod eclipsis fuit miraculose [illegible] et [illegible]
naturaliter ut aliqui [illegible] dici [illegible] passionis [illegible] tempore
[illegible] non fuit [illegible] eclipsis [illegible]
[illegible] [illegible] solis fuit solis [illegible]
[illegible] [illegible] solem [illegible] sol
illuminatur [illegible] interpositionem
[illegible] [illegible] auferre potuit
[illegible] fuit [illegible]
[illegible] [illegible] sola [illegible]













Iste figure debent stare in [illegible]
[illegible]

[illegible] aliud enigma

Est istud. Sunt mulieres, pueri
et puelle et sunt 12 panes
diuisi per istum modum videlicet quod quelibet
mulier debeat habere panes 2
quelibet puella medietatem
panis et quilibet puer per se
[illegible] debet 4tam partem
Sed queritur quanti sunt mulieres
et puelle et pueri. Responsio. Pro
isto respondeo. Sola puella una
erunt pueri 6 quarum quatuor
et quelibet mulier habet duos pa-
nes et puella medium panem
et sex pueri partes quartas panis

Aliud enigma

37 Sunt 12 aues 4or meliores
4or mediocres 4or viliores
et sunt 3 denarii et quilibet
4or emuntur pro uno denario.
Sed queritur pro quanto emuntur
4or meliores et pro quanto 4or
mediocres et pro quanto 4or vi-
liores. Responsio. Quelibet de melioribus
plus denario et quelibet de me-
diocribus pro 3bus quadrantibus
quelibet de vilioribus pro uno quadrante
vnde dicens in medio libet
extremis [illegible]

Aliud enigma

xx Sunt 12 cyphi [illegible] mulieribus
dandi pueris et famulis
[illegible] est [illegible] quod [illegible]
et debet scyphos quod iste cyphi de
[illegible] sui [illegible]
[illegible] Sed [illegible] per [illegible]
[illegible] In medio [illegible]
[illegible] 4or [illegible] nota
[illegible] quelibet mulier habebit
duos cyphos quelibet [illegible]
quelibet puella dimidium et quelibet
famulus 4tam partem

Aliud enigma

7 Quarat [illegible] aliquis debeat in
terra ad unum [illegible] per tres par-
tes ad colligendum [illegible]

[illegible] partes [illegible]
[illegible]
[illegible] in medietatem
[illegible] Responsio
[illegible] Sed que-
[illegible] colligere debent
[illegible] optimum [illegible]
[illegible] dupla
[illegible] pars [illegible]

Aliud enigma

Questio istud enigma. Et est istud.
Si unus [illegible] quo digitus sit
annulus occultus. Responsio. Pollex
vel index dicens medio tres
[illegible] 4or [illegible]
[illegible] qui [illegible] annulus
in digito dupla digitum usque
est annulus et [illegible] alios
[illegible] et [illegible]
et [illegible] quedam
in [illegible] est
[illegible] in quo est annulus [illegible]
[illegible] dupla [illegible]
[illegible]

Aliud enigma

a7 Questio septima. Sunt duo pas-
tores et unus dicit alteri da
mihi unam de ouibus tuis et
habebo in duplo plures quam
tu. Et dicit alter da mihi unam
de ouibus tuis et habebo
tot quot tu. Sed dubitatur quot
uterque habeat. Responsio. Quod septem
[illegible] quinque [illegible]
[illegible] maior [illegible] minor
[illegible]
[illegible]

Aliud enigma

87 Est aliud [illegible] quod [illegible]
[illegible] habeat filios qui
debent [illegible]
valent [illegible]
[illegible]
[illegible]
[illegible]
ita quod [illegible]
[illegible]

ect quod unam fortunam [illegible] [illegible] ita [illegible] et [illegible] [illegible] dicit [illegible] denarios et [illegible] [illegible] reportare debeant. Et quesiit quod poma qualiter [illegible] et quot denarios [illegible] reportavit [illegible] [illegible] [illegible] septem [illegible] Solucio. [illegible] est ista quod [illegible] septem poma pro denario et [illegible] [illegible] [illegible] et ita [illegible] [illegible] 10 denarios reportavit. Secundus [illegible] qui [illegible] septem [illegible] et ad [illegible] [illegible] et ita [illegible] habuit 10 denarios qui [illegible] [illegible] poma pro septem denarios et [illegible] [illegible] [illegible] 3o [illegible] [illegible] quater septem [illegible] habebit [illegible] denarios et ad [illegible] [illegible] [illegible] poma [illegible] valebant [illegible] denarios [illegible] habebat 10. [illegible] [illegible] [illegible] septem et valent [illegible] denario et [illegible] poma [illegible] [illegible] [illegible] habebit 10. [illegible] aliud enigma [illegible] [illegible] [illegible] portet [illegible] [illegible] portet [illegible] quinquaginta [illegible] [illegible] [illegible] [illegible]

Aliud enigma

Si [illegible] [illegible] [illegible] [illegible] panes [illegible] [illegible] et in toto [illegible]

Aliud enigma

Si quis valide [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] denarios valent [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] multiplicat [illegible] [illegible] et [illegible] multiplicat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] multiplicatur [illegible] [illegible] [illegible] [illegible]

Aliud enigma

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Aliud enigma

Quod fuit in prima [illegible] parvos et primos ad ta-
bulam volentes ludere et p[illegible]
[illegible] in ordine et omnes
[illegible] et accidat [illegible]
[illegible] et habeat [illegible] et
fuit [illegible] [illegible] [illegible]
Et tunc [illegible] principaliter
[illegible] et in [illegible]
[illegible] palmas palmat
[illegible] [illegible] incipiat
[illegible] [illegible] [illegible]
[illegible] v^a [illegible]
[illegible] et [illegible] per ordinem
[illegible] palmas [illegible] palmam
[illegible] [illegible] iiiiiiiiiiiiiii

Aliud enigma

Si volueris scire quota feria
[illegible] fuit [illegible]
[illegible] feria [illegible] Deinde
[illegible] duplet feriam illam in
qua [illegible] fuit et ultra
duplatum multiplicet per quinque
et totum productum multiplicet
per [illegible] et tunc [illegible] quantos
possit auferre [illegible] Et quot
[illegible] in tota feria
[illegible] est [illegible] unus
[illegible] fuit [illegible] tunc in
[illegible] feria fuit [illegible] Si autem
fuit [illegible] tunc in [illegible] feria
[illegible] Duplata feriam per quinque
multiplicando Aliud [illegible] per [illegible]
[illegible] multiplicantur Datur [illegible]
[illegible] [illegible] [illegible] in
[illegible] [illegible] petas quod
feria aliqua fuit [illegible]
[illegible] ut quod feria
aliquis [illegible] [illegible]
[illegible] Et [illegible] alius
[illegible] [illegible] Et
[illegible] Dic ei [illegible]
[illegible] [illegible] [illegible] dupla
totum [illegible] Dic ei multi-
plica illud duplatum per quinque
Dic ei multiplica illud productum
[illegible] Dic ei [illegible]
[illegible] [illegible] [illegible]
[illegible] et unus [illegible]
[illegible] feria Si [illegible] unus

quot [illegible] fuit [illegible]
[illegible] feria fuit [illegible] fuit
[illegible] feria Et [illegible]
[illegible] feria [illegible]

13

Aliud enigma

[illegible]

[illegible]

minutorum secundorum cum fuerit
minus positus que fuerint in
loco suo et inter decimatem
quartum loco dividendo per 60 et in quo
in superiori relictum fuit minus
erit fractionum denominationis
asinatione grossiori que parum
ante inter prius fuerat supra
primum et inter residuum eius
dividendo per 60 et superiori
si quod fuerit cum prioribus
et tunc sive operationes quo
usque ad integra fuerit perventum
Secunda tamen sto quod relicto dividendo
[illegible] et pergamenum si ibi fue-
runt [illegible] proportione sexta si quam
ut iste numerus 2 3 4 6 18 4
valet istud 2 12 16 24
Pro quotiens in astronomia
inveniunt volumus plures gradus
quam 360 quia est numerus graduum
totius circuli primi subtrahimus
360 et residuum servatur et
si plura [illegible] [illegible] 6 ad
[illegible] 6 et residuum in loco
suo reservetur

Ad dictum est de multiplicatione
fractionum [illegible] 6 [illegible]
[illegible] ad in [illegible]
[illegible] Unde in addicione
[illegible] duo requiruntur ut ad-
[illegible] [illegible] [illegible] per partem ad
placitum [illegible] [illegible] proportionis
fractionum ad invicem [illegible]
[illegible] [illegible] fractionum et in
[illegible] si sit aliquis [illegible]
[illegible] parte fractionum [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] et in [illegible] [illegible] integris
[illegible] apparet et [illegible]
[illegible] [illegible] [illegible] et in
[illegible] ad [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
quo [illegible] in algorismo de
integris et [illegible] [illegible]

[illegible] et [illegible] 6 [illegible]
ad [illegible] fractionum per
[illegible] [illegible] [illegible] et [illegible]
et erit [illegible] [illegible] in loco
[illegible] [illegible] [illegible] quodlibet
[illegible] fractionum [illegible]
denominationis [illegible] et [illegible]
Et [illegible] [illegible] [illegible] [illegible]
et [illegible] 6 [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] Et [illegible] [illegible]
[illegible] [illegible] proportionem [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] 30
[illegible] [illegible] addicione [illegible]
[illegible] plura [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] in loco [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
quam [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] 13 [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 2 [illegible] 34 [illegible] 18 [illegible]
addatur iste numerus 3 7 48 4 2 3 4
Et [illegible] sit addicio in [illegible]
[illegible] [illegible] [illegible] addendo [illegible]
ad invicem [illegible] fractionum
[illegible] [illegible] plures [illegible] 24
[illegible] [illegible] et [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et si [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] 60
[illegible] [illegible] et [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] 4

Subtractio est de [illegible] [illegible]
fractionum [illegible] [illegible]
[illegible] [illegible] in
[illegible] [illegible] [illegible] fractiones
[illegible] [illegible] [illegible]
[illegible] fractionum [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 24 [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in integris [illegible]
[illegible] [illegible] fractionum
[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]. [illegible]
minuta [illegible] [illegible] [illegible] [illegible]
[illegible] in [illegible] [illegible] [illegible] [illegible] quod
valet [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] in
[illegible] [illegible] [illegible] [illegible] [illegible] est
[illegible] minuta [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible] minutis
et [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] minutis [illegible] [illegible]
[illegible] [illegible] quod valet [illegible] [illegible]
[illegible] quod debet [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in loco [illegible]. [illegible]
[illegible] [illegible] in alio loco [illegible]
[illegible] in [illegible] [illegible]. [illegible]
[illegible] [illegible] [illegible] minutis
[illegible] [illegible] valet [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] quod minutis [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
quod [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] quod [illegible]
in [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] quod [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] est [illegible] et [illegible]
[illegible] est [illegible] [illegible] [illegible]
minutis [illegible] quod minutis
[illegible] [illegible] [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in loco [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
minutis [illegible] [illegible] et

et loco [illegible] debent [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] et
illa minutis [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]. [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] ut
[illegible] [illegible] [illegible] [illegible]
hore [illegible] [illegible] [illegible]
et [illegible] hore [illegible] [illegible] [illegible]
[illegible]. [illegible] hore [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] minutis in
[illegible] quod valet [illegible]
hore que [illegible] [illegible]
[illegible] hore [illegible] [illegible] [illegible]
[illegible] et [illegible] [illegible] [illegible]
[illegible]. [illegible] [illegible] [illegible]
hore [illegible] [illegible] minutis
et in hore [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
minutis et loco hore [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] quod [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 2 [illegible] 36 . 44 .
[illegible] [illegible] [illegible] 23 [illegible] 29 . 39 .

M[illegible] est [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]. [illegible] [illegible]
aliquem [illegible] mediante [illegible]
[illegible] [illegible] et in [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible]

... 3 37 0 24 77 8 9

Duplacio est unius numeri ad se ipsum aggregacio, que fit eodem modo sicut [illegible] ... [illegible]

Multiplicacio est [illegible] numeri in se ducti [illegible] ... [illegible]

... 2 18 0 2[illegible] ... multiplicari ... 3 0 12 ...

Divisio est [illegible] ... [illegible]

denominatur numerus qui provenit
per subtractionem dividendorum a dividendis
ut si dividas 6 in partes 4 provenit
2a que subtrahatur [illegible] manet
[illegible] Et si [illegible]
[illegible] 3a [illegible]
[illegible] Exemplum huius [illegible] 6 4 18 2846
[illegible] 3 12 1a

R[adicem] cubicam est sub
[illegible] numero aliud reperi-
re qui si ducatur vel
[illegible] in se ducatur fiat [illegible]
[illegible] Si numerus fuerit cubicus
vel quadratus. Si vero [illegible]
[illegible] radicem
[illegible] est [illegible] reducendo minutias
[illegible] sunt [illegible] denominatas
[illegible] aliud [illegible] unum
denominationem ad denominationem [illegible]
[illegible] per [illegible] unum denominatum
ut si volueris 3a reducere
ad 4ta vel ad 6ta. Et est [illegible]
radicem [illegible]
quaerit et [illegible] radicem
[illegible] numeri qui [illegible] per [illegible]
[illegible] quaerit et denominatio
[illegible]
[illegible] ut si unum [illegible]
[illegible] 4ta radix
erit 2a et si [illegible] radix
erit 3a [illegible]. Et [illegible]
[illegible]
[illegible]
[illegible]
[illegible] Exemplum huius [illegible]
2 17 4 2 4 [illegible] radix
7 4 0 3 [illegible] 1703

R[adicem] cubicam [illegible]
[illegible] est [illegible] aliquis
numerus [illegible] radix [illegible]
reducere ad ordinem de-
nominatum [illegible]
[illegible] [illegible]

[illegible] ad eadem
denominationem [illegible] que possit
dividi [illegible]
ut si 3a [illegible]
[illegible] est [illegible] in
[illegible] cubicam [illegible]
[illegible] radicem cubicam
denominatum a 3a parte de
[illegible] speculativo
ut si [illegible]
[illegible] 3a a
[illegible] 2a Exemplum huius [illegible]
2 · 7 · 4 9 / 4 8 · 8 9 · 79 · 12 · 7 6
cuius radix cubica est ista
4 6 0 8 [illegible]
[illegible] 16 48 Et
[illegible]

Aries est signum mobile
et est masculinum ori-
entale collericum et
calidum et siccum. Et habet in
corpore hominis caput. Cum luna
fuerit in eo bonum est opera-
ri quicquid cum igne fit,
emere et vendere pecus ani-
matum. Item incipere sangui-
nem minuere, ~~[illegible]~~ bla-
dum seminare, [illegible]
colle[illegible] vestes incidere et
induere. Et omne opus incipe
quod vis cito complere. Item
malum est medicari caput,
uxorem ducere, domum vel
castrum construere, passiones
curare, medicinam sumere.
In initio [illegible]
[illegible] cum [illegible]
purga sanguinem, noli mi[illegible]
[illegible] pueros [illegible]
[illegible] vel [illegible]
[illegible] est [illegible] frigidi-
tatem generat.

Taurus est signum stabile
et femininum frigidum et
siccum et melancolicum
et habet in corpore hominis collum. Cum
luna fuerit in eo bonum est plan-
tare arbores et vineas,
fundare domos et castra,
uxorem ducere, domos et pos-
sessiones emere. Iter paratum
[illegible] accipere et omne opus
incipe quod vis diu durare.
Malum est [illegible] incipere
[illegible] sanguinem minuere
de medicina [illegible] pulmonem
[illegible] nec medicinas
[illegible] noli [illegible]
et [illegible] tamen

de balneo [illegible] vinum [illegible]
libras [illegible] accipe [illegible]
[illegible] et [illegible]

Gemini est signum quod mas-
culinum aereum sanguineum
et habet in corpore hominis bra-
chia et manus. Cum luna fuit
in eo bonum est amicicias inire,
disputationes tractare, de matrimonio
loqui, [illegible] incipe medicinam
accipe, vestes incidere et
ipsas induere, bladum seminare,
[illegible] Malum est
sanguinem minuere de [illegible] medica-
mentum brachiis et manibus
[illegible] incipe. In initio
sanguinem minuere bonum est de
medicina in dextro brachio
et de [illegible] vel de [illegible]
et [illegible] [illegible]
[illegible] frequenter caput purga
pulmonem accipe, [illegible]
[illegible] nullius [illegible]
pedes comedas frigidas
[illegible] vel

Cancer est signum mobile
femininum aquaticum
frigidum et humidum
flegmaticum. Et habet in corpore
hominis pectus et stomachum.
Cum luna fuerit in eo bonum
est iter incipere in aquis,
[illegible] incipe et omnia facere
que cum aqua [illegible]
[illegible] medicinam accipe, [illegible]
[illegible] incidere. Malum est [illegible]
stomachum [illegible]
incipe que debet diu [illegible]
In initio aquam [illegible]
[illegible] bibe [illegible]
[illegible] cum aceto. Malum est [illegible]
[illegible] [illegible] [illegible]
medicinam [illegible] aceto [illegible]

purgacionem minime [illegible]

Leo est signum stabile igneum et [illegible] colericum et [illegible] habet cor [illegible] Cum luna fuerit in eo [illegible] quod sit [illegible] et [illegible] domos et possessiones [illegible] et [illegible] que [illegible] est [illegible] medicinam [illegible] In hoc [illegible] et [illegible] et [illegible] palustribus et [illegible] et [illegible] palustribus [illegible] partium [illegible]

Virgo est signum quod frigidum et siccum et habet ventrem et intestina. Cum luna fuerit in ea [illegible] est minime [illegible] purgacionem [illegible] et [illegible] et quod [illegible] est [illegible] medicinam [illegible] est [illegible] In augusto [illegible] et [illegible] palustribus [illegible] et [illegible] vel

Libra est signum mobile et masculinum aereum calidum humidum et sanguineum et habet [illegible] Cum luna fuerit in ea bonum est purgare [illegible] et [illegible] que [illegible] In septembri [illegible] et [illegible] que [illegible] minime [illegible] est [illegible]

Scorpio est signum stabile femininum frigidum et humidum et habet [illegible] Cum luna fuerit in eo non [illegible] quod sit bonum [illegible] est [illegible] et [illegible] In octobre [illegible] et [illegible]

Sagittarius est signum quod masculinum calidum et siccum et habet [illegible] Cum luna fuerit in eo bonum est [illegible] et [illegible] et [illegible] que [illegible] fiunt. Medicina est

[illegible] item [illegible] aquas [illegible]
et [illegible]
geminat. In [illegible]
[illegible] multis [illegible]
[illegible] balneo [illegible]
[illegible]
et [illegible]
[illegible] aut
[illegible]
[illegible]
[illegible]
[illegible] augmentatur

Asparagus [illegible] est [illegible]
[illegible] frigidum et [illegible]
et [illegible] gradu [illegible]
[illegible]
[illegible] et [illegible] et [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible]
[illegible]
[illegible]
[illegible] et [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Aquarius est [illegible]
calidus [illegible] et [illegible]
[illegible]
[illegible]
[illegible]
et [illegible] et
[illegible]
[illegible] et [illegible]
[illegible]
est [illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Psillium est [illegible]
frigidum et [illegible] et
[illegible] gradu [illegible]
[illegible]
[illegible] et [illegible]
[illegible] et [illegible]
[illegible]
et [illegible]
[illegible] est
[illegible]
[illegible]
[illegible] et [illegible]
[illegible]
[illegible] et [illegible]
[illegible]
[illegible]
[illegible]
et [illegible]
[illegible] electuarium [illegible]
[illegible]
[illegible] electuarium [illegible]
[illegible] alia formula [illegible]
[illegible] est [illegible]

[illegible] prothemus est. Tale quod sapiens in hac scientia. Fecit deus duo luminaria magna, luminare maius et minus. Maius ut preesset diei, luminare minus ut preesset nocti. Que propositio scribitur Genesis primo. Et in ea primitus quod deus creavit duo luminaria magna, videlicet solem et lunam. Sed quereret aliquis quare in proposito dicit duo luminaria cum tamen deus plures planetas et stellas creavit. Dicendum quod huius potest assignari duplex causa. Prima causa quod ipse Moyses in predicta scriptura dicit deum creasse duo luminaria [illegible] diebus et noctibus illuminant [illegible]

[illegible]

[illegible]

[illegible] lege [illegible] Ideo que libere
deligere disponimus quod talis des
tinatorum tempus competat dio-
cesanum [illegible] et candela
que [illegible] pendent [illegible]
[illegible]
[illegible]
[illegible] in isto libro con
tentis Sic quod [illegible] contingit [illegible]
[illegible] contingit in [illegible]
[illegible] quibusdam [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] papa [illegible]

[illegible]

[illegible]

Dogmata veritatis de spaciis temporis circa motum solis et lune orbium et aliorum planetarum scilicet Saturni Jovis Mercurii ... cum sit tenebrosa ... librorum dictis minus involuta ... tabulas quod auctor supplere ...

Iste est liber tabularum cuius subiectum est distinctio temporum per ... divisione dividitur in duos libros partiales quorum primus determinat de distinctione temporum per motum solis et lune ... [illegible]

[illegible] cum [illegible] p[illegible]
et in diversis [illegible] suprema
sit tanget [illegible] sive inter
[illegible] [illegible] et [illegible] inter
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] ingt [illegible]
et quia non distincte
[illegible] sit diff[illegible] distinguendo
[illegible] motu orbium et al
aliorum planetarum [illegible]
[illegible] [illegible] et [illegible] [illegible] quod
[illegible] [illegible] est tradita
in diversis libris [illegible] [illegible] alias
differentias [illegible] plures [illegible]
potuerunt intelligere distinctione
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] autem [illegible]
libri [illegible] fuerit [illegible] [illegible]
[illegible] [illegible] ad [illegible] [illegible]
libro primo [illegible] [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible]
libro [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] Secundo est et
[illegible] [illegible] [illegible] [illegible] diffe
[illegible] [illegible] [illegible] est [illegible]
et [illegible] aliquis [illegible] distinguere
[illegible] [illegible] ut puta [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] motu [illegible] et
[illegible] [illegible] [illegible] [illegible]
[illegible] ad [illegible] que est [illegible]
[illegible] [illegible] [illegible] est
[illegible] [illegible] ad [illegible] et aliquis
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ad
[illegible] [illegible] [illegible] et [illegible]
[illegible] [illegible] et [illegible] [illegible]
est [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible]
[illegible] [illegible] magis [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] et [illegible] [illegible] ad ea ad [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
est et [illegible] [illegible] [illegible]
et laborare [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] motu
[illegible] et [illegible] [illegible] tanget [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] tanget [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] est
[illegible] [illegible] est [illegible] [illegible]
et falsum [illegible] [illegible] est
[illegible] [illegible] intellectum
[illegible] [illegible] [illegible]
[illegible] [illegible] falsum est [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] est [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible] [illegible]
ut [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible]
et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] aliud est
[illegible] [illegible] [illegible] [illegible]
et [illegible] [illegible] [illegible]
[illegible] [illegible] ad aliam
[illegible] [illegible] autem [illegible] [illegible]
[illegible] [illegible] motu orbium [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] stelle [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
stella est [illegible] [illegible] [illegible]

[illegible]

Quare tractatum finalem dependet et cum intuentes viam quam ut invenire vitam in medio cuius vite compositore deo ad iuvante me opportet:

[illegible]

Relinquam igitur distinguere tempora planetarum mediorum et componam de sole et luna de quibus maius polet desiderium in nobis [illegible] et de corporum temporum distinctione et motu earum.

Hic auctor per modum continuationis [illegible]

[illegible]

[illegible]

d[illegible]

[illegible]

Manifesta quidem erunt in hoc tractatu qui nuncupatur computus cyromicalis minor, ea que ad maiorem pertinent propter convenientiam secundum tempus [illegible] distinctionem de sole et luna consistentia. In maiori quidem nota erunt motuum et alia que ibi sunt necessaria cyromicor et locantur ante maiorem. Cuius [illegible] studentibus ma[illegible] delectabit [illegible]

[illegible]

[illegible]

Est ut sol oculus mundi splendor firmamenti dimensor temporis distributor in motibus planetarum princeps et rector [illegible] dux et fundator fons caloris [illegible] moderator

[illegible]

Ista est ps de equitatu [illegible]
apud [illegible] [illegible] primi [illegible]
in quo autor de [illegible]
[illegible] Et [illegible]
[illegible]
[illegible] ad [illegible] intervall-
[illegible] Et intervallum est illud
[illegible] adhuc [illegible]
[illegible] et [illegible]
[illegible]

[illegible]

[illegible] ab alia. Et sic est distributor temporis i. distinguens unum tempus ab alio. Et supple est [illegible]

[illegible]

Luna est oculus mundi, splendor noctis, predisque polus, rex superiorum, infimus planetarum, aurarum alteratrix, menstrua permutatrix, fons humiditatis atque noctis dux.

Hic autor describit aliud corpus celeste scilicet lunam dicens: Luna est oculus mundi, splendor noctis, predisque polus, rex superiorum, infimus planetarum, aurarum alteratrix, menstrua permutatrix, fons humiditatis atque noctis dux. [illegible]

[illegible]

[illegible] ut patet [illegible] ... luna est ... [illegible]

Et [illegible] ... [illegible]

... [illegible] ...

Et [illegible] autor dicit quod luna est ... [illegible]

Et [illegible] luna dicit quod luna est ... [illegible]

Et autor dicit [illegible] quod luna est ... [illegible] ... ut patet ... [illegible]

Arystoteles [illegible] luna ... [illegible]

... [illegible] ...

Predictorum vero mani-
festatio quilibet sunt primum
cyclum. Ciclus quidam
generaliter sumptus est suc-
cessio temporis in quo aliquid
incipit et procedit oriri
donec iterum reddeat ad
inceptum. Et sic dicitur potest
esse cyclus eo quod sol in-
cipit oriri in oriente et
reddeat ad eundem locum.
Similiter et annus potest
dici ciclus et multa
alia unde cyclus dicitur
quasi circulus quia per tempus
aspectus reddeunt ad
eundem principium.

Ista est alia pars [illegible] ... [illegible] ... quid est cyclus generaliter sumptus ... [illegible] ...

Predictorum [illegible] ... cyclus ... [illegible] ... quid est cyclus generaliter sumptus ... [illegible] ... quid est cyclus generaliter sumptus ... [illegible] ... incipit et procedit oriri donec

[illegible]
[illegible] auctor est amplificare
de dic[tis] [illegible]
[illegible] in libro [illegible]
Deinde [illegible] q[uod] auctor
[illegible]
[illegible] differentie [illegible]
cyclus [illegible] differentie
cyclus [illegible]
[illegible]
[illegible]
[illegible]
[illegible] cyclus [illegible] alii [illegible]
[illegible]
[illegible] quod [illegible]
[illegible]
differentia [illegible]
[illegible]
[illegible] auctor [illegible]
[illegible] cycli [illegible] est
[illegible] cyclus [illegible]
[illegible]
[illegible] alii [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] differentia [illegible]
[illegible]
[illegible]
[illegible] differentie [illegible]
[illegible]
[illegible] differentie [illegible]

[illegible]
[illegible]
[illegible]
[illegible] cyclus [illegible]
[illegible] cyclos [illegible] auctor
[illegible]
[illegible] cyclus [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] ad [illegible]
est [illegible] alii Epicyclus [illegible]
[illegible] auctor [illegible]
[illegible]
[illegible] cyclus [illegible]
[illegible]
[illegible] differentie [illegible]
[illegible] cycle [illegible]
[illegible]
[illegible]
[illegible]
[illegible] differentie [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] auctor
[illegible] cyclus [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

Cyclus autem solaris sive sumptus est spacium 28 annorum in quo revertuntur litere dominicales que in eisdem redire non possunt nisi in 28 annis. Unde litere dominicales compunt cyclum solarem. Unde in genere patet [illegible] pro [illegible]

[illegible]
solaris et [illegible]
[illegible] 28 [illegible]
[illegible] cyclus [illegible]
[illegible] 28 [illegible]
[illegible] litterarum dominicalium [illegible]
Cyclus solaris est spacium temporis 28 annorum in quo omnes littere dominicales [illegible] 28 annis
[illegible] littere dominicales [illegible] cycli solaris [illegible]
[illegible]
Cyclus solaris est spacium temporis 28 annorum [illegible]
[illegible] feriales [illegible]
[illegible]
[illegible] cyclus solaris est [illegible] concurrentes et regulares feriales [illegible]
[illegible] in 28 annis [illegible]
[illegible] concurrens est feria [illegible]
[illegible] septimane [illegible] cyclus solaris [illegible]
[illegible] Concurrens est [illegible] septimane [illegible]
[illegible] septimanas [illegible]
[illegible] concurrens [illegible] solaris [illegible] dominicales [illegible]

[illegible] solaris in 28 annis 267
[illegible] dominicales [illegible] cyclus [illegible]
[illegible]
[illegible] feria [illegible]
[illegible]
Regularis feriales [illegible] concurrentes [illegible]
[illegible] cycli solaris [illegible]
[illegible] regulares feriales [illegible]
[illegible] septimane [illegible]
[illegible] regulares [illegible] in 28 annorum [illegible]
littere dominicales [illegible]
[illegible] littere dominicales [illegible]
[illegible] cycli solaris [illegible]
Et [illegible] littera dominicalis in aliquo [illegible]
[illegible] 28 annis Conse[quens]

[illegible]

27 13 1
Pentaviginti / tredecim / iota / de-
10 7 21 9 (?)
cem (?) septem / quinqua / novemviginti / quinque (?) /
14 24 2 12
Decima / viginti / duo / duod-
22 4 14 27
vigintiduo / quatuor / quatuordecim / viginti (?) & 6

[illegible]

[illegible]

[illegible]

Cum autem cyclum so-
larem predictum scire vo-
lueris centenarios anno-
rum transactos infra predigi-
tos et infra articulum sive
membrum ultimi centenarii
Post hec infra secundum versum
secundum predictum locum
de quolibet membro ver-
dictionem quousque perve-
neris ad articulum signatum
et hec dictio ostendit tibi
cyclum solarem ad istos
centenarios vel ad istum
centenarium deinde si ultra
deficiant in centenario
residuum est deinde perve-
niatur ad membrum proximum
Post hec ut prius infra pre-
digitos articulos annos
ad quos ultimi centenarii
[illegible] [illegible] lo-
cando [illegible] membra

aurem in p° 20 minus 20
tribus. Et contra iiij articulorum
sunt numeri vltra centenarium
narii articuli in annis
superfluis. Et nunc contra ad
idem numerum 2m cyclum
per contra vigint et de
super remotis articulo cum
cyclum ad istos articulos
annorum. Et nunc integre
annos centenariorum ad
annos articulorum. Et primo aliquis
sunt ultra centenarios et
articulos et ad integre
et arte collecta publice
28 quoties potest et
remanebit tibi cyclus
solaris ad illum annum
tibi propositum. Et
Hic autem dat regulam et practicam
super predictorum [illegible]
remotis cyclis solaribus. Et dicit
quod [illegible] facit [illegible]
20 [illegible] que alicuius
practicando [illegible]
et alleviat [illegible]
[illegible]
[illegible] 2a [illegible]
tibi sunt [illegible]. Et [illegible]
Si volueris [illegible] cyclum
solarium ut [illegible]
centenarios annorum [illegible]
qui sunt [illegible] et contra illos
in [illegible]. Et [illegible]
[illegible] numerum super
quod [illegible]

[illegible] et [illegible]
[illegible] numeri [illegible]
[illegible]
[illegible] numero
[illegible]
[illegible] in 2a [illegible] in
20 [illegible]
ad numerum [illegible]
quod [illegible]. Et [illegible]
[illegible] numeri [illegible]
[illegible] cyclum solarem
quod ad [illegible]. Et
[illegible]
[illegible]
[illegible] quod
[illegible] numerum super quod
[illegible]
[illegible]
[illegible] Et [illegible]
[illegible] practicam articulorum
[illegible] articulos
[illegible] articulos
[illegible] articulos
ut [illegible]
[illegible] numeros [illegible]
[illegible] articulos [illegible]
[illegible]
[illegible] numeri [illegible]
[illegible]
[illegible]. Et [illegible]
[illegible]
articulos [illegible]
[illegible]
[illegible]
[illegible] numeri [illegible]
[illegible]
[illegible] ad numerum [illegible]
[illegible] et [illegible]
[illegible] numerum [illegible]
[illegible] tibi cyclum solarem
qui ad hos articulos [illegible]
[illegible]
[illegible]
[illegible]
ad [illegible]
[illegible] articulos. Et [illegible]

[illegible]

[illegible]

Cum alter potest per eclipsim solaris [illegible] ab annis domini [illegible] tracta nonagenta [illegible] et [illegible] erit cyclus solaris ut patet 14 11 proximo [illegible] applicatur 13 91 [illegible] 4 ab uno [illegible] [illegible] ad [illegible] [illegible] [illegible] ad unitatem [illegible] patet quod ab 11 [illegible] duo [illegible] [illegible] surgit [illegible] ab uno surgit [illegible] in quolibet anno [illegible]

Cum vero inceptio tibi fuit sub tractatu [illegible] quod articuli fuerunt in toto collecti

Illos quere per primum versum ut prius ad dandum residuum articulorum si aliquid fuit residuum vel superfluum et propter tibi cyclus solaris

Sed alter [illegible] ordinationem [illegible] alternando difficultatem que [illegible] incumbit in practicando [illegible] [illegible] [illegible] [illegible] [illegible] tibi erit minus difficile [illegible] 28 ab hoc collecta [illegible] duplicatum et triplicatum [illegible] [illegible] articuli [illegible] [illegible] [illegible] collecto [illegible] in digitis [illegible] [illegible] articuli [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] articuli [illegible] [illegible] superfluum et [illegible] [illegible] cyclus solaris

Modo est aliquis dicat [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] si [illegible] aliquid [illegible] [illegible] quid sit ad [illegible] et quid sit sub [illegible] [illegible] [illegible] et plura que ad hoc [illegible] [illegible] nostro [illegible] [illegible] Ad hoc [illegible] [illegible] [illegible] quod [illegible] [illegible] [illegible] [illegible] [illegible] quos in [illegible] [illegible] [illegible] [illegible] [illegible] articulos [illegible] [illegible] plura [illegible] [illegible] [illegible] [illegible] [illegible] digiti Sunt [illegible] [illegible] articuli [illegible] [illegible] [illegible] [illegible] [illegible] collecto [illegible] in digitis [illegible] [illegible] articuli [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] articulum [illegible] [illegible] [illegible] cyclus [illegible] 28 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 ut [illegible] 27 [illegible] solaris [illegible] [illegible] [illegible]

Inventa autem cyclo solari litere dominicales sunt inveniende. que per totum cyclum solarem conveniunt (quare) sunt septem in numero scilicet a b c d e f g. Unde totus annus cycli solaris currit per istas septem literas ita quod quolibet die erit una litera et per ultimam erit prima. Et in bis[sextili] erit una litera dominicalis que cum alio variatur et alie sunt secundum seriem alphabeti. In quibusdam vero annis litera dominicalis bis variatur. [illegible]

[illegible]

[illegible]

... est ... et ...

Et sciendum quod annus est duplex communis et bissextilis. Communis est qui habet 365 dies et 6 horas. Et istorum annorum sunt tres semper post bissextilem et 2us et 3us in quibus semel variatur littera dominicalis. Bissextilis est iste qui habet 366 dies. Et in isto bis variatur littera dominicalis.

[illegible]

Ista vero omnia cognosci
sunt per usus [illegible]
[illegible] c dit a bas gvi
[illegible] dic ba ma gvi
[illegible] ti abus cug for
[illegible]

[illegible]

incipit linea dominicalis computando
ab ff. Sed iste autem proce-
dit [illegible]
incipit [illegible] spacium 28 annorum
[illegible]
[illegible]
[illegible] annos iste. Cyclus
totalis fuit revolutus [illegible]
[illegible] alle incipit
et [illegible] alle [illegible]
[illegible] linea dominicalis [illegible] ff g
[illegible] linea dominicalis [illegible]
[illegible] fieri ut esse [illegible]
[illegible]
[illegible] ab ultra linea patet
[illegible] utroque ordine [illegible]

[illegible]

[illegible] litterarum dominicalium [illegible] [illegible] volumus [illegible]
[illegible] unius quando a[illegible]
dominicalis totalis spacium quinque
annorum et contra litteris spacium
quinque annorum. Alius quando
littera vel littere dominicales primi
anni unum spacium quinque annorum
ad litteram vel aliam ad litteras
dominicales vel dominicalem alterius
bisextilis et litteram 2m anni ad
litteram 2m anni primi bisextilis
ad litteram 3m anni 3i bisextilis.
Quandoque cadit terminus magis ad
[illegible] [illegible] [illegible] [illegible] per [illegible]
[illegible] [illegible] quando [illegible]
[illegible] magis. Ad [illegible]
[illegible] primum quinque annorum
[illegible] 2 annorum [illegible] est ut
in primo anno [illegible] quinque [illegible]
[illegible] [illegible] littere dominicales [illegible]
[illegible] annus bisextilis [illegible] littera
dominicalis sequentis anni est [illegible]
2o de [illegible] quinque annis

p. 24

[illegible] autor ponit [illegible]
[illegible] litteras [illegible] quinque
[illegible] ponit [illegible] est
[illegible] in differentia [illegible]
una syllaba ponit duas [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
in [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] dicit. Et
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] duas [illegible] litteras [illegible]
[illegible] nulla est [illegible] habeat
[illegible] quas [illegible] alia etc.

Cum autem litteram dominicalem
scire volueris et alia con-
quesita ad predicta, numera
annos cycli solaris quos
scire volueris per digitos
et super articulum illius
anni cuius litteram queris.
Deinde numera illos usque
[illegible] [illegible] per quolibet [illegible]
incipiendo unam syllabam
et illa syllaba que terminatur
in medio pugno ostendit
litteram dominicalem illius
anni, capiendo litteram
de ordine litterarum dominicalium.
[illegible] [illegible] autor [illegible] [illegible]
practicam [illegible] predictorum. Et
[illegible] duo [illegible] [illegible]
[illegible] litteras dominicales [illegible]
[illegible] [illegible] [illegible] in anno [illegible]
[illegible] in anno bisextili [illegible]
[illegible] [illegible] [illegible] bisextilis
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] duo [illegible] [illegible]
[illegible] in [illegible] litteras dominicales
in anno [illegible] in anno
bisextili [illegible] [illegible] [illegible]
[illegible] fuerunt [illegible] [illegible]
[illegible] [illegible] [illegible] dominicales
in anno [illegible] in [illegible]
[illegible] predicta [illegible]
[illegible] ad litteram dominicalem
[illegible] [illegible] [illegible]
[illegible] dominicam [illegible] [illegible]
[illegible] una in [illegible]
[illegible] [illegible] [illegible]
articulum [illegible] anni [illegible]
litteram [illegible] Deinde [illegible]

[illegible]

Si autem due littere fuerint reperte in una sede et due littere dominicales sicut in hac p(rim)a griff in qua reperitur g et f. Tunc est annus bisextilis. Et prima littera durabit per Januarium usque ad festum Mathie et secunda debet imponi post predictum festum et non ante. Et ideo illa littera servabit per

totum annum. [illegible] habemus litteras dominicales [illegible] in anno bisextili [illegible]

[illegible]

[illegible] erit bissextus erit [illegible] quatuor [illegible]. [illegible] tu poteris [illegible] est [illegible] quod [illegible]. Et [illegible] erit [illegible]. Et [illegible] dicit [illegible] quod durat [illegible] in festo cathedre petri [illegible] [illegible] in [illegible] autem [illegible]. Ergo [illegible] in [illegible] festo cathedre [illegible] ante [illegible] post [illegible]. [illegible] est [illegible] singulis annis [illegible] in [illegible] post [illegible]. Et [illegible] dicit [illegible] die post festum [illegible] que est ante [illegible] per [illegible] erit [illegible]. [illegible] est [illegible] ante cathedram [illegible] in cathedra petri [illegible] post [illegible] in [illegible] bissextus. [illegible] in festo cathedre petri [illegible] in crastino diei cathedre [illegible] festo cathedre [illegible] [illegible] in vigilia cathedre [illegible]

Post mathie diem junge mox feriam
[illegible] post [illegible] diem vacat ibidem

[illegible] autor dicit [illegible] in [illegible] dies [illegible] bissextus [illegible]. [illegible] post diem mathie [illegible] in [illegible] feriam et [illegible] post [illegible]

[illegible] quod [illegible] et [illegible] in [illegible]. Circa [illegible] est [illegible] autor [illegible] est [illegible] est [illegible] bissexti [illegible] in festo mathie [illegible]. Et [illegible] [illegible] festum mathie [illegible] post [illegible] per [illegible] et [illegible]. [illegible] festum [illegible] [illegible] in anno [illegible]. [illegible] bissextus [illegible]. Et [illegible] post [illegible] festum mathie [illegible]

Circa dominicam cognita per [illegible] potest in breui concurrentes illius anni. Est autem concurrens anni [illegible] ultimam feriam. Unde concurrentes anni sunt dies inter primam dominicam post mathie [illegible] et festum cathedre [illegible] domini concludendo dies predicte dominice in concludendo vel dies [illegible] dominicas [illegible] per

hos usque subsequentes ponitur
in mense [illegible] q[ui]a a
erit littera dominicalis tunc nulla
sequitur concurrens. Sed quia
tunc [illegible] que est quinque [illegible]
de quo [illegible] tunc [illegible] ff
quod [illegible] g unum [illegible]
[illegible] quinque de quatuor
[illegible] tres ff [illegible] binas
g [illegible] concurrentes in anno
Concurrentes superius posita [illegible]
[illegible] litteram dominicalem anni
et probat concurrens. Si al[iqua]
in aliquo anno due fue-
runt littere dominicales ut in
anno bissextili tunc prima
littera dominicalis debet concurren-
tes et [illegible] 2a. Et ista sunt
concurrentes anni [illegible]
tuitatis [illegible] | [illegible] est [illegible] [illegible] [illegible]
quam [illegible] littere dominicales in [illegible]
[illegible] in [illegible] concur-
rentes anni [illegible] [illegible] littere
littere dominicalis [illegible] [illegible]
in [illegible] concurrentes anni
[illegible] que [illegible] [illegible] [illegible]
anni. Et [illegible] [illegible] [illegible]
[illegible] [illegible] mil [illegible] [illegible]
[illegible] [illegible] est [illegible] quod
a est littera dominicalis tunc nullus
est concurrens anni. [illegible] [illegible]
[illegible] est ista que tunc [illegible]
[illegible] dies est [illegible] [illegible]
[illegible] et [illegible] nulla dies [illegible]
est. [illegible] [illegible] [illegible] est
littera dominicalis tunc [illegible] [illegible]
[illegible]. [illegible] [illegible] est ista
que tunc [illegible] dies est in
[illegible] [illegible] in [illegible] [illegible]

[illegible] in bissextili [illegible]
[illegible] que tunc [illegible] dies [illegible]
addi[tur] que addita [illegible]
integram septimanam. [illegible]
quod [illegible] est littera dominicalis tunc
sunt quinque concurrentes anni [illegible]
tunc [illegible] dies est feria
sexta [illegible] quinque dies [illegible]
[illegible] per dies dominica [illegible]
[illegible] feria 2a 3a [illegible]
[illegible]. [illegible] [illegible] littera dominicalis
est d tunc [illegible] [illegible] dies
[illegible] tunc [illegible] dies est feria
[illegible]. [illegible] [illegible] littera dominicalis est
e tunc [illegible] [illegible] dies [illegible]
tunc [illegible] dies est feria
[illegible]. [illegible] [illegible] littera dominicalis
est f tunc [illegible] [illegible] dies
[illegible] tunc [illegible] dies est fe-
ria [illegible]. [illegible] [illegible] [illegible] tunc [illegible]
[illegible] dies [illegible] [illegible] tunc [illegible]
[illegible] [illegible] dies est
[illegible] [illegible]. Et [illegible] tunc [illegible]
[illegible] dies [illegible] [illegible]
dies [illegible] ad feriam 2am.
Et [illegible] septimana [illegible]
[illegible] dominica [illegible] [illegible] dies
[illegible] tunc tunc est in [illegible]
[illegible] dies tunc [illegible] alia
septimana [illegible] [illegible] dies [illegible]
[illegible] [illegible] [illegible] [illegible]. [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] littera dominicalis [illegible]
[illegible] tunc [illegible] probat
[illegible] anni. [illegible] [illegible]
[illegible] littere dominicales [illegible]
[illegible] [illegible] in [illegible]
bissextili [illegible]. [illegible] [illegible] littere
dominicales in aliquo anno [illegible]
in anno bissextili tunc [illegible]
[illegible] [illegible] [illegible] [illegible] littere
dominicales [illegible] [illegible]
[illegible] est [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] dies qui [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

diem domini . Die ipso autem no... [illegible] Et ita in tractatu sequenti patebit. Preterea quia accidentes aliquando diebus que sunt affixe doctrina predicta ad festa et ... duos non numerantur ... [illegible] tractatus ... Item falsa ... autoris ... Illa ... [illegible] ... qui sextilia anno domini 1416 fuit ... [illegible] ... 27 maii ... 27 ... Ulterius ... et ... [illegible] ... quia ... [illegible] ... Item ... [illegible] ... Et ... illa ... [illegible] ... Item ... et ... [illegible] ... Et ... [illegible] ... anno domini 1424 ... [illegible] ... 29 ... 28 et ... [illegible] ... 29 ... [illegible]

Sequitur de mensibus anni quorum sunt 12 . De quibus

...ma in maiori plenius ... Hic at sunt ipsorum nomina et numerus dierum tantum . Et primum sciendum ... [illegible] ... Unde versus

Ja fe mar ap ma iun iul aug sep oc no decembris

Ja mar mai iul aug oc de decem tenent uno

Alii triginta sed februarius octo viginti . Alii versus

Cap bis mars ... [illegible] ... iula ... [illegible] ... omnes ... [illegible] ... Ja fe mar ... [illegible] ... Et alii ... [illegible] ... Ja mar ... [illegible] ... Hic est ... [illegible] ... Et ... [illegible] ... Et ... [illegible] ... Et ... [illegible] ... et ... [illegible]

[illegible]

Adam de gebat.

er gra ci fes a dn ferp
pdictus vo vsus sz
adam degebat dicit
inveniē pmas ferias
cuiꝫ lꝫ mensis sit cōmo
nūa pm vsu dicitur
mensium sꝫ ga fc mar' ...
vsqꝫ ad mensem quē vis
qre et bua mensem cum
pmas ferias quere oꝫ ca
tne nūa pdictu vsu
sꝫ adam degebat ad eund
articulu p quē mēs
vnaz pmas incipiendo et
tne pma lra illus pllba
cadens ad articulu pgtu
ondet ferias illius mens
in respectu ad lram dnica
lem pus notatam

[illegible]

[illegible]

[illegible]

[illegible]

Facta autem determinacione solis respectu lune sequitur de luna & lunacionibus de quo ciclus lunaris primum tractatur uel dicitur. Est autem ciclus lunaris ... temporis incipiens ab aliquo die quo ipsa luna coniungitur soli dicitur

in eadem p(ar)te s(e)c(un)d(u)m q(uo)d ...
supponit. Et alio(rum) u(u)l
ulgant q(uod) mansio
Unde q(uod) cyclus lunaris
continet 19 annos ut an-
tiqui inscripserunt plenius
no(n)o anno luna ... conti-
nuabit in eod(em) puncto et
die nisi p(ost) 19 annos
et mansiones cum p(er)
cyclum lunarem.
Capitulum ... tractatus in
quo autor declarat de cyclo
lunari. Et diuidit in duas
partes p(rin)cipales. Primo diffinit
cyclum lunarem. 2o declarat
... diuersimode ... in ...
... sola q(uod) ... 2o ...
... in duas partes. Prima pars
diffinit cyclum lunarem q(uem)
... antiqui. 2o ...
in ... cycl(um) diffinitum
...
... infra spacium 19 an-
norum ...
2a ... Sed iste cyclus
fallit. Tunc ...
dicto ... de cyclo solari
...
... cycli lunaris ...
nos ... a quo
lunare cyclus ... Et
... diffinit cycle
lunaris ... Et ... cyclus
lunaris ... in textu
Sciendum est ... hoc q(uod)
...
...
...
... cycli solaris
... p(er) ...

cycli lunaris ...
... solaris
...
...
...
...
...
...
par ...
a nobis ...
... aptum ad ...
quando ...
...
...
... apud ...
... Et ...
... cyclus lunaris
...
lunaris ...
... in quo
...
...
... Sed ...
...
...
...
...
...
... Sed post cyclum
decimum nonum ... Et ...
... est ... 19 annis
... autor ...
...
... cycle ... lunaris ... in
...
...

Sed iste cyclus lunaris
fallit ... ita q(uod) ab
anno incarnationis domini
primo usq(ue) ...
... anno domini 1330
... dies anticipauerunt
mansionem ...
uulgaris. Luna prima in
libris ... in celo ...

lunar(is)

Cum ista parte autor confirmat istam
dispositionem antiquorum et primo facit hoc
concludit eum esse erroneum
ubi dicit ergo iste cyclus videtur esse
erroneus. [illegible] secundo facit
hoc 2o [illegible]
Cum Regula [illegible] adhuc in [illegible]
[illegible]
[illegible] fallit etiam quo
ad [illegible] primo [illegible] iste
iste cyclus [illegible] lunaris fallit
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] autor [illegible]
[illegible] lunaris [illegible] fallit quo
ad [illegible] Cyclus [illegible]
[illegible] fallit quo
fallit quo ad [illegible]
[illegible]
[illegible]
[illegible] 1330 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] fallit [illegible]
[illegible]
[illegible]

Fallit etiam quo ad annos
quos et bissextiles in re-
volutione cuiuslibet cycli
Unde ubi annus bissextilis
est in aliquo anno cycli
lunaris unam partem addit
feriam. Sed in revolutione
cuiuslibet non addit quia annus
bissextilis non est quintus. Et
ergo iste cyclus videtur esse
erroneus. Propter quod magis
cyclus est inventus in ma-
iori computo qui omnia
ista removet dubia. Sed
quia tamen iste antiquus videtur
esse verius. Et de isto cyclo
antiquo ponuntur versus
[illegible]
[illegible] Sed cyclus antiquus
non fallit [illegible]
[illegible] quater [illegible]
bissextiles [illegible]
[illegible] revolutione [illegible]
[illegible] 19 annorum [illegible]
fierent anni [illegible] bissex-
tiles [illegible]
anni bissextiles [illegible]
[illegible] bissextiles [illegible]
[illegible]
[illegible] 19 annorum [illegible]
cycli [illegible] in 4or
[illegible] cyclus [illegible]
[illegible]
[illegible]
16 et 3 [illegible]
[illegible]
[illegible]
[illegible] bissextiles [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] secundum ... sicut in alio ... [illegible]

... annus cycli [illegible] ... est ... ubi [illegible] ...

[illegible]

... cycli antiqui ... [illegible]

... annus cycli ... [illegible]

[illegible]

... cyclus lunaris fallit ... [illegible]

... cycli ... hora ... [illegible]

... anno 1330 ... [illegible]

... cyclus lunaris ... hora ... [illegible]

[illegible]

11 16 2 1d 12
Fla la q3 bar go ma
19 3 8 13 8 4
ri tis hc uas si dus
9 6 19 7 16 17 1
in oc tor c ba pe us
16 1 11 2 12
X mouse uiud duodi
15 13 4 14
od trib triad quard qmonk

Cor^a

Cor^a

Cor^a

Cum ergo q[illegible] est [illegible] ca[illegible] [illegible]
[illegible] in [illegible] membris [illegible]
[illegible] [illegible] membro [illegible]
[illegible] [illegible] membris [illegible]
[illegible] [illegible] [illegible]
[illegible] Et [illegible] [illegible]
[illegible] Et [illegible] articulos ad [illegible]
[illegible] [illegible] una [illegible]
[illegible] ad [illegible]
Et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] 10
ad [illegible] et aliud 10 et [illegible]
[illegible] Et [illegible] plus [illegible]
[illegible] 19 [illegible] 19 [illegible]
[illegible] Et [illegible]
[illegible] ad [illegible] 10
[illegible] Et [illegible]
[illegible] ad [illegible]
ad [illegible] 10 [illegible]
Et [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] nona [illegible] Et [illegible]
[illegible] [illegible] [illegible]
ad [illegible] [illegible] Et [illegible]
[illegible] [illegible]
[illegible] et [illegible] plus
in [illegible] Et [illegible]
[illegible] [illegible]
[illegible] [illegible]
Et [illegible] [illegible] 4 [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] Et [illegible]
[illegible] 19 [illegible]
[illegible] 14 [illegible] Et [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] cyclo lunari [illegible]
[illegible] [illegible]
[illegible] 19 [illegible] Et [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] cyclo lunari [illegible]
Cum autem cyclum lunarem
scire volueris centenarios
annorum [illegible] una [illegible]

tas et sua ar[illegible] pone membra
ultimo centenarij. Post hec una
parte [illegible] sz fila [illegible] loca
[illegible] membro [illegible] per quo
[illegible] ad articulo [illegible]
[illegible] [illegible] ostendit
tibi cyclo [illegible] pone ad
cycli lunaris ad istud articulum
centenariorum. Si vero [illegible]
desinat in centenarijs in
[illegible] repetet [illegible] ad membrum
istud ultimo centenarij pone
[illegible] Postea ut prius [illegible]
articulos annorum ad quos
vis [illegible] ultimo centena
rios [illegible] cycla sz loca
[illegible] in primo membro [illegible]
[illegible] in 2o [illegible] in [illegible]
[illegible] [illegible] et sua me-
mbra ultimo articuli. Et [illegible] una
[illegible] membra [illegible] sz
[illegible] et [illegible]
articulo [illegible] tibi cyclo
ad [illegible] duos [illegible]
culos. Et [illegible] duos
articulorum ad duos cente
nariorum et [illegible] aliquid
[illegible] ultimo [illegible]
pone articulos [illegible]
et [illegible] [illegible]
19 [illegible] et [illegible]
cyclo lunarem [illegible]
ad que [illegible] Et [illegible]

et subtrahas tibi incipiens scri-
be quot articuli fuerunt in
tota collatione illos quere
primum [illegible] ut prius et pre-
bet tibi circulus limitem ad
[illegible] respondentem articulorum
collectionis || [illegible] parte autem
[illegible] primo [illegible]
[illegible] et [illegible] in [illegible]
[illegible] sunt [illegible] patet modus
[illegible] sub [illegible] sunt [illegible]
in [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
et [illegible] [illegible] in [illegible]
in [illegible] quos [illegible] in digitis
[illegible] [illegible] medio
[illegible] et [illegible] [illegible]
[illegible] ultra [illegible]
et [illegible] [illegible]
[illegible] et [illegible] ultra [illegible]
[illegible] est [illegible] [illegible]
digitis et manum [illegible]
[illegible] [illegible] [illegible]
[illegible] ad in [illegible] [illegible]
in quolibet [illegible]
Et [illegible] [illegible] et cadit
[illegible] [illegible] [illegible] vel [illegible]
[illegible] [illegible] sic [illegible] tibi
[illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] si non esset [illegible]
in [illegible] vel [illegible] ad quas
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] al-
[illegible] ad 3 [illegible]
et [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ad
[illegible] ultra [illegible]
[illegible] ad [illegible] [illegible]
digitis [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] ad [illegible] [illegible]
ultra [illegible] Et [illegible]
[illegible] [illegible] [illegible]
ultra [illegible] [illegible] aut-
[illegible] [illegible] [illegible]
[illegible] est in [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] in quos ad

articulos [illegible] [illegible] qui [illegible]
[illegible] ad quos [illegible]
[illegible] [illegible] [illegible]
[illegible] in digitis [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] ad primum articulos
in [illegible] 2o in 3a 3a [illegible] et [illegible]
[illegible] [illegible] [illegible] ultra articu-
[illegible] Et [illegible] [illegible]
[illegible] [illegible] [illegible]
ultra articuli [illegible] quem [illegible]
[illegible] [illegible] [illegible] cadit [illegible]
[illegible] ultra [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] et in [illegible]
[illegible] [illegible] [illegible] Et
[illegible] aliquid in [illegible]
[illegible] [illegible] et articulos
[illegible] ad [illegible] vel ad [illegible] ad
in [illegible] collatione [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] in collatione [illegible]
[illegible] [illegible] [illegible] et
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] quod [illegible] [illegible] in [illegible]
collatione illos [illegible] in digitis
[illegible] [illegible] [illegible] ultra
articuli Et [illegible] [illegible] quem
[illegible] [illegible] [illegible]
[illegible] Et [illegible]
[illegible] [illegible] ad [illegible]
tibi circulus [illegible] ad [illegible]
ad quem [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] duos
[illegible] [illegible] quod [illegible] est
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

De ebdomadis
a nativitate Christi
usque ad dominicam
Esto michi. Viden-
dum est secundario circa
predictum [illegible] incidunt
secundum revolutionem cicli solaris
et lunaris, qui causant
ebdomadas istas secundum quod
in aprili nos oportet celebrare
nostrum pascha, qui mensis
cum aliis variatur in suis
inceptionibus propter duos cy-
clos lunares. Et ideo ille eb-
domade secundum variantur.
Ita quod in uno anno plures
sunt ebdomade quam in alio.
Et concursus lunaris est causa
earum ebdomadarum.
Sic est alia [illegible] in quo in-
[illegible] debeat dominicalis [illegible] quod
incidat inter natale domini
et dominicam Esto michi. Et ideo
[illegible] in quibus [illegible] primus
[illegible] debeat [illegible]
[illegible] et [illegible]
simul [illegible]
quod sit inter natale domini
et dominicam Esto [illegible]
[illegible] superfluis
inter natale domini et [illegible]
[illegible]
[illegible] Ideo [illegible]
[illegible] dominicam [illegible]
[illegible] intervallum
[illegible] Et [illegible]
[illegible] ebdomadas

[illegible] dominicalis [illegible] quod incidat
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] in aprili
[illegible] quod debeat [illegible] in aprili
nostrum pascha [illegible] celebrare
[illegible]
[illegible] Judeorum [illegible]
[illegible] pascha [illegible]
[illegible] in [illegible]
[illegible] legem [illegible]
[illegible] hoc tempore debemus
celebrare nostrum pascha. Et
in memoriam dominice passi-
onis [illegible]
[illegible] tempore [illegible]
[illegible] tempore [illegible]
[illegible] Sic tamen [illegible]
[illegible] tamen [illegible]
tempore [illegible]
Et ideo [illegible] in
[illegible]
et [illegible] Judeorum [illegible] modo
[illegible] variatis
tempore [illegible] Sequitur [illegible]

Ethereas / arctra / fran-
gula / baculus / [illegible] /
clauditur / [illegible] / [illegible]
[illegible] / gaudens / [illegible] /
[illegible] / [illegible] /
[illegible] / [illegible] / [illegible]
[illegible] / [illegible] / [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

8 4 ... 6 8 9 4 11 1 15 6 11 9 12 1 13 7 14 8 17 1 16 7 10 8 18 6 19 9

[illegible]

[illegible]

26 · 17 · 34 · 23 · 12 · 31 · 20 · 39 · 28 · 10 · 36 · 27 · 14 · 33 · 22 · 11 · 30 · 19 · 38 ·

[illegible] 29 [illegible] 39 30 4 [illegible]

[illegible]

Cor[illegible]

[illegible]

Per versus predictos ebdomadas invenies hoc modo. Numera annos cycli lunaris per digitos usque ad annum ad quem fueris exper[illegible] [illegible] numera has usque [illegible] [illegible] versus [illegible] dictiones v[illegible] dicto et dictio ad locum anni cycli lunaris correspondens ostendit tibi ita q[illegible] unius sillabe [illegible] ebdomade.

[illegible]

sup[er] q[uo]d cadit finis duci[tur] [illegible] [illegible] [illegible]
a[n]i[m]i c[on]t[ra] quo[rum] i[n]t[er]vallo [con]tra
[illegible] p[ro]dite[s] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] ita q[uod] [illegible] [illegible] sup[er] [illegible]
[illegible] cadit [illegible] [illegible] Et hoc
e[st] q[uod] [illegible] [illegible] [illegible]
[illegible] sup[er] [illegible] i[n]tellig[itu]r
[illegible] [illegible] p[ro]p[ter] ut d[icitu]r
i[n] [illegible] Secu[n]d[um] e[st] q[uod] q[uan]d[o]
[illegible] p[ro]ductionu[m] [illegible] voluit
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] i[n]
ad li[ne]a[m] [illegible] Et hoc [illegible]
ad s[e]c[un]d[u]m q[uo]d [illegible] [illegible]
[illegible] fort Ex q[uo] li[ne]a [illegible]
no[n] p[otes]t [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
p[ro]ducta [illegible] [illegible] [illegible]
[illegible] [illegible] Et p[ro]p[ter]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
i[n]t[er]vallo [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] li[ne]a [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
i[n] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
~~[illegible] [illegible] [illegible]~~
~~[illegible] [illegible] [illegible]~~
~~[illegible] [illegible] [illegible]~~
~~[illegible] fallit [illegible]~~
~~[illegible] [illegible] [illegible]~~
~~[illegible] [illegible] [illegible]~~

Hoc t[ame]n [illegible] fallit et
[illegible] [illegible] [illegible] [illegible]
[illegible] li[ne]a[m] [illegible] [illegible]
que s[un]t [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] Et
[illegible] [illegible] talis [illegible]
li[ne]a[m] d[i]c[t]a[m] i[n] q[ua] [illegible]
[illegible] [illegible] [illegible]
[illegible] e[st] [illegible] Ex q[uo] sequit[ur]
[illegible] [illegible] li[ne]a [illegible] ut p[ro]
li[ne]a[m] distans [illegible] li[ne]a
[illegible] [illegible] [illegible] Et
i[n] [illegible] [illegible] [illegible]
[illegible] [illegible] li[ne]a [illegible]
et [illegible] cu[m] [illegible]
Sic aute[m] [illegible] aliquis
[illegible] [illegible] [illegible] i[n]
[illegible] p[ro]ductio[n]e[m] [illegible]
[illegible] p[ri]mo [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] p[ro]ductio[n]e
[illegible] aliq[uan]do fallit et q[uo]d
[illegible] [illegible] [illegible] [illegible] que
s[un]t li[ne]a [illegible] [illegible]
[illegible] quo[rum] i[n]t[er]vallo [illegible]
[illegible] [illegible] [illegible] li[ne]a [illegible]
distantes s[un]t i[n] [illegible] [illegible]
[illegible] [illegible] li[ne]a [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] li[ne]a
[illegible] [illegible] [illegible] li[ne]a
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] aliq[ua] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] sup[er] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] li[ne]a [illegible]
[illegible] e[st] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

vallo habet. Videtur quod
in anno bissextili littere dominicales
permutentur ad 2a littera dominica-
lis ad primam quidem precedit vel
littera 2a dominicalis precedit vel
sit ... sequatur in anno
bissextili ... duas plures
... litteras dictas. Secundum

De concurrentibus et domini-
calibus est secundum. Circa con-
currentes sunt duo supplen-
da vel dominicales sunt
inter diem natalis Christi et
diem dominicam. Quoniam per
nativitatem Christi diem vel
natalis includendo et
diem dominicam excludendo
a primo die nativitatis
tempus sunt inchoandi
et currit singulis annis
ut patet per versus superiores
Tu vel ... unum. Cum duo
Da tres. Cum quatuor fac
quinque. Sex ... dat. Isti
concurrentes qui sunt et do-
minicales sunt inveniendi
per litteras dominicales ita quod
quando a est littera dominicalis
tunc ... currit in die-
bus ... incipiendo ... in
die natalis Christi ... et do-
minicales sunt tunc
... duo ... currunt ...
sit ... tempus ...

Auxilia ... littera dominica-
lis ... in ... duo supplen-
dos qui in anno ... ad in-
tervallo concurrunt vel ...
... quorum duo ...
concurrentes et dominicales. Et ...
... 2a ... in
... ut patet per versus sub-
scriptos. ... sed ... est
... quoniam supplen-
dum in tali intervallo quam
... concurrentes et dominicales.
Et ... sit ... in
tali intervallo vel ...
... inchoatur
... quod sit ...
... dominicam per concurrentes
... includendo ... natalis
... excludendo ... dominicam.
Et videtur quod ... die ...
... ...
... Videtur quod ista
duo concurrentes sunt in ...
... Tu vel ... unum
... Cum ...
... quod illi duo qui
dicuntur concurrentes et dominicales
sunt ... per litteras dominicales
... quando a est
littera dominicalis tunc ... concurrunt
... Et ...
... littera ...
... dominicam ... littera dominica-
lis ... duo concurrentes
... supplendo vel ...
... [illegible]

Ita quod in anno bissextili
concurrentes quidem sunt
per ... litteras dominicales ita
quod una feria ... con-
currentibus ... littera ... Auxilia
autem ... duos
supplendos in anno bissextili
... facit ... 2a ...
... Quare ...

[illegible]

[illegible]

Pascha, rogationes et pente
costes dicuntur esse mobilia
quia in diversis variantur terminis
quia celebrari debent certis
[illegible] variantur. Est autem
septuagesima tempus vel festum quod
celebramus per 70ta dies
in quibus filii Israel capti fue-
runt. Apparitione vero
Christo. Quadragesima est festum quod
celebramus sicut Christus
ieiunavit 40ta diebus
super terram ante eius passionem.
Pascha est festum sicut ce-
lebramus sicut Christus resur-
rexit. Christus resurrectionem 40ta
diebus super terram ambula-
vit. Rogationes est festum
sicut Christus ascendit in celum.
Pentecostes est festum sicut
Christus misit spiritum sanctum in
discipulos. [illegible] est 39 [illegible] in quo auctor
[illegible] de quibusdam festis quorum
[illegible] est de [illegible] officiis
[illegible] et continet tria [illegible]
in primo [illegible] de quibusdam festis
[illegible] in 2o de festis [illegible]
in 3o [illegible]
De festis [illegible]
[illegible]
[illegible] festa [illegible] 2o
[illegible]
[illegible] Est
autem septuagesima [illegible]
[illegible] Dicitur
[illegible]

Quia [illegible] pascha [illegible] dicitur [illegible]
[illegible] festa mobilia [illegible]
[illegible] pascha ro-
gationes et pentecostes. [illegible]
[illegible] festa mobilia quia
[illegible] mobilia quia in diversis
variantur [illegible]
[illegible] Dicitur
[illegible] quare festa
[illegible] est [illegible]
et [illegible] quod per agimus
[illegible] filiorum Israel apud
[illegible] in Egypto [illegible]
[illegible] Est [illegible] est [illegible]
quod sufficit [illegible]
[illegible] festa [illegible] mobilia
[illegible] festa [illegible] que
[illegible]
[illegible] celebrandi
[illegible]
[illegible]
[illegible] sicut festa mobilia.
Quod festa [illegible] que de-
[illegible]
[illegible]
[illegible]
[illegible] continua-
[illegible]
[illegible]
[illegible] annunciationis
[illegible] aliis
[illegible] quia [illegible]
festa mobilia [illegible]
[illegible] aliis [illegible]
[illegible]
[illegible] festa mobilia quorum
[illegible] Est [illegible]
[illegible] quia continet
septuaginta dies [illegible]
[illegible] Quod vocatur sep-
tuagesima [illegible]
septuaginta annorum quibus
filii Israel capti fuerunt apud
Babilonem [illegible]
[illegible] que [illegible]
[illegible] Et [illegible]
[illegible] ut est
alleluia. Et [illegible] de festo [illegible]
[illegible]
[illegible] filiorum Israel [illegible]
[illegible] et finitur
in octava pasche [illegible]
[illegible]
Est [illegible] octavam pasce

[illegible]

3m

[illegible]

4m

[illegible]

Quorum inicia habentur
preciis sub septem ...
[illegible]

Quinque dant / li mar / ag
[illegible]
de / ab ba / ge or / bausta
[illegible]

Sex dant / vincula / tea /
[illegible]
via / ... / et zoph ma
[illegible]

Septem dant / lc lu / virgo /

... / bausta / ...
[illegible]

Octo dant / ag de / am /
[illegible]
... et zoph / ...
[illegible]

Novem dant / tea / ...
[illegible]

Decem dant / virgo / gre
[illegible]
gori / geor / ...

[illegible]

[illegible]

[illegible]

Predicta festa mobilia in
temporibus preceptis invenies
hoc modo. Unde primo quod
septuagesime sunt ante carnis
privium [illegible] dominica et
prima [illegible] que incipit
[illegible] septuagesima tunc primo
[illegible] temporibus [illegible]
[illegible] in hoc [illegible] audit
septuagesimam. Et [illegible]

i° de maiori. Item autem viso
et cognito loca lune de
mensium tali modo per locum
a primo mense mensis
[illegible] in 2° et in 3° [illegible]
quod loca lune domibus
illius anni et [illegible]
per festivitatem primas
[illegible]
anni maioris in primo mense
mensis [illegible]
domibus anni [illegible]
[illegible]
domibus [illegible]
festum [illegible]

[illegible]

[illegible]

De festis fixis anni
De translacione in quibus
ferie sunt declaranda

Dicuntur festa fixa que
omni anno sub eodem tem
pore celebrantur

[illegible]

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[illegible] et [illegible]
[illegible] festa mobilia. [illegible]
[illegible] et quando
[illegible]
[illegible] quando [illegible]
quando septuagesima [illegible]
festum pasce. Alias quando
[illegible] festa [illegible] mobilia [illegible]
[illegible] quando festa mobilia
[illegible]
[illegible] in alio anno sunt
in alio [illegible] dies festum [illegible]
precedit festum pasce. Et festum
pasce precedit festum [illegible]
[illegible] festis [illegible] quando [illegible]
festa mobilia ad festa fixa [illegible]
[illegible] et aliud ut
[illegible] est in [illegible]
[illegible] in uno anno [illegible]
[illegible] in alio [illegible] in alio [illegible]
[illegible] in uno anno festa [illegible]
[illegible] aliquid [illegible]
[illegible] aliquid [illegible]
[illegible] pauli [illegible]
[illegible] aliquid [illegible]
[illegible]
[illegible] festa mobilia [illegible]
[illegible] quando [illegible]
[illegible] festa [illegible] mobilia
[illegible]
[illegible] quando ad festa fixa
[illegible]
[illegible] de festo pasce [illegible]
[illegible]
[illegible]
[illegible]
[illegible] festa [illegible]
[illegible]
[illegible]
[illegible]
[illegible] festorum mobilium
[illegible] alterantur [illegible]
[illegible]
in alio [illegible] festis [illegible]
[illegible]
[illegible] festa [illegible] mobilia

Item fere alterantur i. mu-
tantur causa istius est quia
in omni anno sunt quinqua-
ginta due septimane
et una feria que complet
hanc alterationem supradic-
tam [illegible]
[illegible] quando [illegible]
[illegible] fere alterantur
i. [illegible] causa [illegible] est
quia [illegible] anno [illegible] septimane
et una feria que complet
hanc alterationem [illegible]
[illegible] quo est [illegible]
[illegible] festa fixa
[illegible] alterantur [illegible]
aliquis [illegible] festa fixa
[illegible]
[illegible]
[illegible]
in [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] celebrare festa fixa
[illegible]
[illegible] feria [illegible] festa
fixa [illegible]
[illegible]
[illegible] festa fixa [illegible]
[illegible]
[illegible] festa [illegible]

et quod si uno anno cadunt ad
unam feriam et in anno sequenti
in medietate cadunt ad aliam
feriam ista tamen non sunt simpliciter super-
[illegible] festa fore sed [illegible] dicitur et [illegible]
[illegible] tamen [illegible] [illegible] [illegible]
[illegible] in [illegible] [illegible] dicit [illegible]
[illegible] alternatur quia dicit in
ipsis festis mutabilibus alternatur
feria sed quia in uno anno
cadunt ad unam feriam et in
anno in medio sequenti cadit
in aliam feriam. Et ut sub dicto
tempore illius in fine impleatur
contingentibus [illegible] dicit
Tamen concedit [illegible] alternarum
communiter dicitur in festis mutabilibus
et alternari quia compleat quas
ferias superfluas [illegible] requiritur

Quinimmo cum omni anno su-
perflue sint hore que in
quarto anno faciunt diem
naturalem. Et hec est causa
quia semper post quartum annum
una dies superadditur
anno bissextili. Si autem
hec dies non superadderetur
contingeret quod post spatium tempo-
ris viginti octo annorum
festum nativitatis Christi ad me-
dium estatis perveniret
et idem intelligendum
est de aliis festis. In
ista parte auctor [illegible]
[illegible] et dicit. Quod est super-
fluum omni anno [illegible]
[illegible] [illegible]. Ubi est sciendum
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] que contingit in
annis omnibus quibus circa
festa mutabilia. Et [illegible]

annorum per differentiam que
contingit in anno bissextili circa
ista festa. [illegible] [illegible]
[illegible] ad plenum [illegible] [illegible]
Et ut immobilia festa in uno
anno cadunt ad unam feriam
et in anno sequenti cadunt
ad aliam [illegible] feriam illa
tamen sunt simpliciter super festa
mutabilia in anno bissextili
[illegible] [illegible] et [illegible]
[illegible] quia post quartum annum
una dies superadditur. Et
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] Et [illegible] omni
anno [illegible] hore. Et est
[illegible] [illegible] [illegible] [illegible]
[illegible]. Et semper post quartum
[illegible] annos una dies
bissextilis superadditur [illegible]
[illegible] [illegible] [illegible] [illegible]
anno et [illegible] in [illegible]
[illegible] [illegible] superadderetur [illegible]
[illegible] [illegible] 28 annos
festum nativitatis Christi perveniret
ad medium estatis [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible]. Et [illegible] qualibet
[illegible] [illegible] [illegible] 28 annos
festum nativitatis perveniret
ad medium estatis [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] 28 [illegible] [illegible]
[illegible] quarta [illegible]
bissextilem et [illegible] [illegible]
[illegible] erit medius annus
[illegible] [illegible] 182. Et [illegible]
perveniret [illegible] [illegible]
[illegible] [illegible] [illegible]

Adhuc anni variantur
quia festum nativitatis Christi
cadit in medio yemis
nunc autem in [illegible]

anno domini millesimo trecentesimo
tricesimo medium yemis
solsticium distat vel differt
per 12 dies ante festum na-
tivitatis Christi || Sit autem
[illegible] [illegible] festa [illegible]
[illegible] [illegible] dicitur
[illegible] Et dicit [illegible]
variant patet quod festum nativitatis
[illegible] in medio yemis
[illegible] [illegible] anno domini
1330 medium yemis distat
per 11 dies vel 27 [illegible]
[illegible] festum nativitatis [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] festa [illegible] non [illegible]
[illegible] annus [illegible]
[illegible] festa [illegible] non [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] quam [illegible]
[illegible] [illegible] [illegible] festum
[illegible] [illegible] [illegible]
[illegible] festis [illegible]
[illegible] festum in [illegible]
[illegible] [illegible] [illegible]
[illegible] dicitur [illegible] quod [illegible]
[illegible] [illegible] qui [illegible]
[illegible] vel [illegible]
[illegible] distancia [illegible]
[illegible] ergo patet quod [illegible]
[illegible] hore [illegible]
[illegible] [illegible]
[illegible] quod nativitas
[illegible] medio yemis sive
[illegible] differt
per 11 dies [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] 1330
per 120 [illegible] in uno [illegible]

erunt 11 dies per quos distat
nativitas Christi a festo lucie
Et per quorum [illegible]
[illegible] que faciunt [illegible]
[illegible] [illegible]
[illegible] hora Et [illegible] duo
[illegible] [illegible] [illegible]
[illegible] [illegible]
sit quod nativitas Christi [illegible]
a festo lucie [illegible]
in quibus [illegible]
[illegible] annos in [illegible]
[illegible]
1330 qui [illegible]
in uno [illegible]
[illegible] 22 hore ad quas
[illegible] due hore [illegible]
[illegible] [illegible]
erunt 24 hore [illegible]
unum diem qui [illegible] 11
[illegible] dies et patet quod
nativitas Christi [illegible]
[illegible] [illegible]
Unde patet quod centum et
viginti annis unum diem
faciunt que non [illegible]
[illegible] [illegible]
[illegible] anime [illegible]
[illegible] sed motu solis
sit quod [illegible] variatur
[illegible] autem [illegible]
[illegible] patet quod [illegible] 20
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] festa [illegible] in uno
[illegible] [illegible]
[illegible] [illegible] in [illegible]
[illegible] [illegible]
[illegible] [illegible] patet ergo
[illegible] [illegible]
[illegible] [illegible] quam [illegible]

[illegible]

per viginti unum milia et per octingenta et quadraginta annos quos natus Christi ad [illegible] pervenit aetatis qui in theologia non creditur

[illegible]

Iam de istis satis dictum est

ad presentem redeamus. Ecce
sunt tales versus primo
de a° d° b° 3° et c° tota

Adam er gre geor
dar pe vns lamper per
ver eli Hom ingelle
doro phil aff aug gal
bric barba mati Cir
val petri lic apps ...
mo vin pinipa et col
steph Da pris pau
bri kathe cum firm
lucas am iuto ... ro
Epp pur geo vit
pet marg lau kath
cru math an tho
Fab epi bla mathie
geor mal c mat ma
vri mich am Hor
ag mar io kal post
mag ier vndecim s
math kathe ...

... in qua autor dicit ...
in quibus feriis sit festa ...
Ecce pauli ...
dat ... puncta ...

... quod ...
... festum ...
Aut per ... puncta ...
... autor ...
... festum ...

Elizabeth ...

... festum ...

... stephanum ...
... stephani ...
... petri ...
... festum ...
... crucis ...
... festum ...
... festum ...
... iacobus ...

pert in isto versu sunt festum petri et pauli. In viii in 3o versu sunt vincula petri [illegible] [illegible] festum [illegible] [illegible]

[illegible]

Cum in quibusdam festis festa sunt inveniuntur volueris videre primo in quo versu habetur quod festum in [illegible] [illegible] [illegible] feriam in reppa[illegible] ad literam dominicalem. Et [illegible] omnia festa mobilia versibus postea [illegible]

[illegible]

[illegible] festa aliqua [illegible] sequitur [illegible]

Adventum domini. Nunc inveniendus quod adventus domini aliqualiter videtur esse festum mobile. Si vero vis scire initium eius tunc scias quod si C D sit litera dominicalis tunc adventus domini erit dominica die ante festum sancti Andree. Sed si A B E fuerint litere dominicales tunc adventus domini erit dominica proxima post festum sancti Andree. Sed si G fuit litera dominicalis tunc adventus domini eadem die solet esse scilicet tunc festum sancti Andree [illegible] ad 2am feriam. Et adventus celebratur [illegible] die [illegible]

[illegible]

Andree capit b c d. C Cum

a g ff aufferit. C Verum

nec tamen solet illic poni x m

[illegible]

[illegible] agit [illegible] pauci [illegible]

In quibusdam vero [illegible] ab kalendis [illegible] et nonas [illegible] ostendit initia [illegible] Martii Maii Julii et Octobris [illegible] et [illegible] ostendunt initia kalendarum [illegible] et [illegible]

[illegible]

[illegible] qui [illegible] ut quosdam [illegible] et [illegible] quod [illegible] debent [illegible] [illegible] ipsorum [illegible] [illegible] debent [illegible] [illegible] et [illegible] debent [illegible] [illegible]

[illegible]

[illegible] declarant sive predictos
digitos in duas partes [illegible]
scilicet in initium secundum [illegible]
fiunt ad [illegible] dicti
secundum incrementa [illegible]
[illegible] ab [illegible]
[illegible] iste [illegible]
[illegible]
[illegible]. Sed [illegible]
[illegible] triplicat duos [illegible]
[illegible] utrumque
[illegible]
[illegible]
Sed [illegible] fiunt
[illegible]
[illegible] tunc declarat
[illegible] medii [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] ad [illegible]
[illegible]. Sed [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] ad [illegible] declarant
[illegible]
[illegible]
[illegible] ad [illegible]
declarant [illegible]
[illegible]. Sed [illegible]
[illegible]

Mar ma iul oc quin-
to medii [illegible] loca bis
Ja mar ma iul aug
oc decemb minimi dab-
[illegible] est. Sed alios [illegible]

februarius vel bis
sextus [illegible]. Quisquis per auctor[illegible]
admonendo predictos digitos
quorum est [illegible]
in loco [illegible]
quando ad initium secundum [illegible]
marcius vel ac in quarto membro
medii digiti est [illegible]
Et hic loca reliquos alios
[illegible] quando ad initium
secundum in tercio membro me-
dii digiti [illegible]
Dubitat [illegible] quare ma-
[illegible] debent
[illegible] kalendarum [illegible]
membro medii digiti. Sed
[illegible] quatuor
kalendas [illegible] aliqua duo
[illegible]
[illegible] membra medii
digiti. Sed [illegible] loca
alios menses [illegible]
4or [illegible]
[illegible]
[illegible] scilicet in [illegible] medii
digiti in [illegible] in [illegible]
membro [illegible]
[illegible] digiti quando ad
initium kalendarum [illegible]
4or menses. Sed februarius
vel bis sextus habet scilicet in
duobus membris medii digi-
ti est [illegible] vel [illegible]
[illegible] quando ad [illegible] ka-
lendarum. Sed scilicet in [illegible]
membro medii digiti
[illegible] est [illegible]
[illegible] est [illegible]. Sed [illegible]
[illegible]
[illegible]
[illegible] februarius [illegible]
[illegible]
kalendarum [illegible]
februarii [illegible] est [illegible]

minimi digiti ymo est in membris minimi digiti sed in quarto membro eiusdem est medium [illegible] in 3o [illegible] [illegible]. Sed [illegible] [illegible] iulii quia [illegible] [illegible] [illegible] [illegible] in [illegible] est medium membra minimi digiti sed in primo membra [illegible] [illegible] [illegible]. Sed q[illegible]

Primus versus dicit initia ydus ita q in quarta membro medii digiti est initium marcii maii iulii et octobris. Sed initia aliorum mensium sunt in 3o membro eiusdem digiti. 2a et 3a versus dicunt initia kalendarum etc q ianuarius marcius iulius augustus octobris et decembris [illegible] sunt in membra minoris digiti sed alii membra digiti [illegible]. Et alii menses sunt [illegible] in membro ultimo [illegible] s. [illegible] digiti. Sed in februario [illegible] duobus membris [illegible] est [illegible] ita q in quarto membro minoris digiti initium februarii [illegible] [illegible].

Sed [illegible] [illegible] et [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] et [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible]. Sed [illegible] kalendas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ydium [illegible] in quibus [illegible] [illegible] [illegible] quot sunt ydus [illegible] [illegible]. Et initium ydus [illegible] est in quarto membro medii digiti est initium [illegible] marcii maii iulii et octobris. Sed initia aliorum mensium in tercio membro eiusdem medii digiti [illegible]. Sed [illegible] 2a [illegible] 3a [illegible] [illegible] [illegible] initia kalendarum [illegible] [illegible] et 2a [illegible] [illegible] [illegible] mensis sunt [illegible] [illegible] [illegible] [illegible] augusti octobris [illegible] [illegible] initium kalendarum [illegible] est [illegible] membra minimi digiti [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] digiti [illegible] [illegible] [illegible] in [illegible] membro eiusdem [illegible] digiti [illegible] [illegible] et in [illegible] eiusdem digiti [illegible] [illegible] [illegible] membra eiusdem digiti [illegible] [illegible] [illegible] digiti [illegible] [illegible]. Sed alii menses [illegible] [illegible] initia kalendarum [illegible] in [illegible] membro [illegible] digiti [illegible] [illegible] [illegible] [illegible]

festorum. Secundo [illegible]
[illegible] quando in [illegible] kalendis marcii agitur pro
[illegible] prima [illegible]
est locanda in duobus me-
diis membris digiti scilicet
in proximo et in sexto. Sed
in quinto membro eiusdem di-
giti in capite ponendo
kalendis marcii [illegible]
[illegible] Sequitur textus [illegible]

Si vero kalendas no-
nas et ydus scire vo-
lueris una vice corpora-
mus in quo mense scire
volueris incipiendo in
supremo membro pollicis
decurrendo omnes digi-
tos usque ad partem in
qua illos scire desideras
quemlibet articulum nota.
Si vero hic articulus
fuerit ante initium illius
mensis quod videri licet in
mensibus precedentibus
scias quod illa dies
erit ydus aut nonas.
Si vero acciderit post princi-
pium initium scias quod prima
erit kalendas post mensis

In ista parte autor premissis
[illegible] sub mense [illegible]
[illegible] et dicit
Si tu [illegible] scire debes [illegible]

[illegible] kalendas ydus et nonas
Sed una [illegible]
[illegible] quo est [illegible]
[illegible]
[illegible] Et [illegible]
[illegible]
Et [illegible] februario
[illegible]
[illegible]
[illegible]
[illegible] ydus [illegible]
[illegible]
[illegible] pollicis [illegible]
[illegible]
[illegible] digiti [illegible]
[illegible] totam [illegible]
[illegible] digitos [illegible]
[illegible]
Si [illegible] ante
initium [illegible]
prima [illegible] nonas [illegible]
[illegible] initium ydus
[illegible] kalendas
nonas [illegible] aut ydus
[illegible] in quo [illegible]
[illegible]
[illegible] kalendas [illegible]
[illegible]
Si vero scire kalendas
[illegible] nonas ydus vel ka-
lendas [illegible]
[illegible] prima [illegible]
[illegible] est prima trium [illegible]
est [illegible]
Et sic prima trium est in [illegible]
februarii [illegible]
februario [illegible]

[illegible]

Si vero acciderit ante ini-
cium yemis tunc vna ab
inicio yemis .1.2.3. recedat
usque ad membrum signi con-
trario modo et habebis
sub hoc quoto fuerit in
eiusdem mensis

[illegible]

[illegible]

Sed si vis tantum inspi-
ciare per orbe quod
sunt retrograde ... duo
sunt pervenire ad membrum
signi quod est unus ...
eiusdem mensis ... tunc quod

prima dies excludatur quia non potest esse nonas sed magis kalendis post eiusdem mensis

[illegible]

Si vero ceciderit prima in una ydus hic una ab inicio kalendarum quia indicit in temporibus vel 2.3.4.5 quod ut prius usque ad [illegible] kalas non eiusdem mensis

[illegible]

[illegible]

Si vero kalendas omnis alicuius mensis inuenire volueris tunc numera ab inicio kalendarum usque ad inicium idus. Ita quod ini tium ydus excludatur quia non potest esse kalendas septembris mensis. Omnis autem mensis habet octo ydus. Et marcius mayus julius october habent sex nonas. Sed alii autem menses habent iiii[or] nonas in suis propriis temporibus. Ergo numera et ... reliquis dabis bis duas nonas

[illegible]

[illegible]

[illegible]

	A	B	C	D	E	F	G
	●	1	2	3	4	5	6
1	8	8	8	8	7	7	7
2	6	6	6	6	6	6	6
3	9	9	9	9	9	8	8
4	8	7	7	7	7	7	7
5	6	6	6	6	5	5	5
6	9	9	8	8	8	8	8
7	7	7	7	7	7	6	[illegible]
8	10	10	10	9	9	9	9
9	8	8	8	8	8	8	7
10	7	7	6	6	6	6	6
11	9	9	9	9	9	9	9
12	8	8	8	7	7	7	7
13	6	6	6	6	6	6	5
14	9	9	9	9	8	8	8
15	7	7	7	7	7	7	7
16	6	6	6	5	5	5	5
17	9	8	8	8	8	8	8
18	7	7	7	7	6	6	6
19	10	10	9	9	9	9	9

[illegible]

Anni cycli

lateraliter versus dextram directe sub littera dominicali prius inventa sub qua [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in anno [illegible] [illegible] [illegible] [illegible] dominicalem. Et talis tabula [illegible] [illegible]

1	4	4	9	6	7	6	6	8	9	9	8
2	8	7	6	4	6	9	8	6	7	7	6
3	6	6	9	6	9	8	7	4	6	6	9
4	9	9	8	9	6	6	6	7	8	8	7
5	7	6	6	8	9	9	9	6	7	7	6
6	6	9	9	6	8	4	6	8	6	6	8
7	9	8	7	9	6	6	4	7	9	9	7
8	6	6	6	7	9	8	8	6	6	6	6
9	4	9	9	6	7	7	6	9	9	9	9
10	8	7	6	8	6	6	9	6	8	8	6
11	6	6	9	7	9	9	7	9	6	6	9
12	9	8	8	6	6	6	6	8	9	9	8
13	7	7	6	9	9	9	9	6	7	7	6
14	6	6	9	6	8	8	6	9	6	6	9
15	8	9	7	9	6	6	9	7	9	9	7
16	7	6	6	8	9	9	8	6	6	6	6
17	6	9	8	6	7	7	6	9	9	9	9
18	9	8	7	9	6	6	9	6	8	8	6
18	6	6	6	7	8	9	7	9	6	6	9

Si per hanc tabulam intervallum [illegible] volueris in vero anno [illegible] [illegible] quolibet tripellus et [illegible] [illegible] accidit

cuius par vel impar di- par ab anno Christi [illegible] [illegible] in linea rubea quot [illegible] accidunt in eclipsi et ubi [illegible] [illegible] [illegible] ab [illegible] [illegible] in eclipsi [illegible] lateraliter versus dextram [illegible] [illegible] [illegible] Et [illegible] in ultimo [illegible] [illegible] [illegible] erit [illegible] [illegible]

Set si [illegible] in tripellis fuerit impar [illegible] [illegible] [illegible] ut [illegible] [illegible] impar [illegible] [illegible] par ad [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible]

Et ista tabula incipit anno domini 1422 [illegible] et durat usque 1447 [illegible]

Si autem numerum quolibet anno [illegible] [illegible] volueris [illegible] ab anno domini [illegible] 1390 et [illegible] [illegible] annos [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in quinario [illegible] in [illegible] [illegible] [illegible] Et ubi fuerit unus [illegible] [illegible] [illegible] [illegible] [illegible] anni et [illegible] [illegible] [illegible] ad completionem [illegible] [illegible]

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 1 2 3 4

Anni cycli

Capitulum de littera dominicali etc.

Si vis scire dominicalem quolibet anno in [illegible]

Cum ab anno domini presenti 1390 et ceteris annis [illegible] scire cupias in hac tabula literam dominicalem, primo de [illegible] anno in capite tabule B in A et conscripte dominicalis. Et in qua litera tabule [illegible] annorum illa litera dominicalis per illum annum. Et ab unius annorum in quibus litera finiatur tabule illi anni erit bisextilis tertia litera rubeat tenetur pro litera dominicali usque ad festum mathie. Et secunda litera sed nisi tenetur pro litera dominicali pro toto anno sequenti etc.

A	
G	ff
E	
D	
C	
B	A
G	
f	
E	
D	C
B	
A	
G	
ff	E
D	
C	
B	
A	G
ff	
E	
D	
C	B
A	
G	
ff	
E	D
C	
B	

Sequitur de festis mobilibus

Si quolibet anno septuagesimas invariabilem scire et festa mobilia [illegible]. Cum ab anno domini presenti 1390 annos et residuos annos incipias computare in sub scripta tabula incipiendo ab unitate super qua scripta est crux. Et sic successive computando per totam scriptam tabulam. Et ubi fiat numerus annorum completorum ibi reperies [illegible] [illegible] [illegible] de terminanto septu-

agesimam [illegible] inter nativitatem et septuagesimam. Et sic de [illegible] calendis martii [illegible] inter nativitatem et quadragesimam [illegible] festis mobilibus in [illegible]. Et [illegible] computando [illegible] incipi ad [illegible] domini [illegible] et [illegible] tabula [illegible] quolibet anno [illegible] festorum mobilium etc. Sequitur figura [illegible]

·	·	·	·	·	·	·	·	·	·	·	·
1	3	2	4	3	2	4	2	1	4	2	1
3	1	4	3	1	4	2	0	3	2	7	2
1	4	3	1	4	2	0	3	2	7	2	1
4	2	1	4	1	4	3	1	4	3	1	3
2	1	4	1	4	3	1	4	3	0	3	2
7	3	1	4	2	1	4	2	0	3	2	4
3	2	3	2	1	4	2	4	3	1	4	3
1	3	2	1	3	2	4	2	1	4	2	1

Septuagesima	3
Quadragesima	6
Pascha etc.	12
Rogationes	1a
Penthecostes	19

Si ad [illegible] domini quem [illegible] esse festa mobilia [illegible]. Considera quod sit litera dominicalis [illegible] si fuit [illegible] ad [illegible] erit in [illegible] festum [illegible]. [illegible] f g a [illegible] erit in [illegible]. Quod si fuit litera dominicalis

Cuius cicli dominica in quo cadit festum andree celebratur adventus domini. Et festum andree [illegible] per [illegible] ad feriam [illegible] [illegible] etc.

Aureus numerus

Regimen de Intervallo etc.

Aureus numerus	0	1	2	3	4	5	6
	A	B	C	D	E	F	G
1	8	8	8	8	7	7	7
2	6	6	6	6	6	6	6
3	9	9	9	9	9	8	8
4	8	7	7	7	7	7	7
5	6	6	6	6	5	5	5
6	9	9	8	8	8	8	8
7	7	7	7	7	7	6	6
8	10	10	10	9	9	9	9
9	8	8	8	8	8	8	7
10	7	7	6	6	6	6	6
11	9	9	9	9	9	9	9
12	8	8	8	7	7	7	7
13	6	6	6	6	6	6	5
14	9	9	9	9	8	8	8
15	7	7	7	7	7	7	7
16	6	6	6	6	5	5	5
17	9	8	8	8	8	8	8
18	7	7	7	7	6	6	6
19	10	10	9	9	9	9	9

Si per hanc tabulam intervallum quod scire vis invenire volueris. Scias primo quis sit aureus numerus illius anni et que sit littera dominicalis per tabulas positas in prima kalendarii. Deinde quere aureum numerum illius anni in prima linea rubea. Et litteram dominicalem in superiori parte eiusdem tabule. Et sub littera dominicali directe in eadem linea [illegible] aureum numerum [illegible] vel [illegible] aureum numerum [illegible] intervallum. [illegible] [illegible] [illegible] [illegible] etc.

Aug	D	pr∫	bla	bu	ic	ci	lib	c	vi
	E	ca	sig	ap	me	q3	phil	pi	c
	F	fab	ag	po	ta	in	sig	ne	te
	G	aug	do	la	ma	ta	ex	pe	uct
Sep	A	vin	fe	sa	vr	lib	flo	z	lu
	B	cu	gu	ca	a	phil	go	zof	pau
	C	ti	ap	va	ge	sig	jo	ma	bu
	D	pau	po	let	ui	tho	gau	mo	pe
	E	po	la	ju	tri	fla	sta	in	&
	F	no	sa	le	ce	gol	mo	gu	cris
	G	bi	ca	co	a	jo	c	fe	pau
Sept	A	lc	va	un	pri	ga	pi	vr	me
	B	lu	let	ge	in	sta	ma	c	mtr
	C	me	ju	ff	am	nig	fa	te	col
	D	zn	u	pc	bis	c	ce	uct	bi
	E	pu	co	by	fr	pe	zoff	vr	leo
	F	bla	un	ma3		ma	ma	lar	uni
	G	seb	gc	th	fr	za	me	in	dat
Octo	A	ag	te	ay	tib	ce	in	pc	ing
	B	do	pe	in	o	zop	gc	&	pri
	C	fc	t4	&	vat	ma	fe	ar∫	un
	D	bun	ma	ma	at	in	vr	pau	la
	E	ap	th	ci	q3	uj	c	me	ce
	F	po	ay	uf	ty	gar	te	ma	vr
	G	la	in	off	bu	fe	uc	col	ui
Nove	A	fi	&	fi	cy	vic	ui	le	in
	B	ta	ma	a	ct	c	gan	lis	te
	C	va	ce	o	va	[illegible]	in	vin	q3
	D	lau	ug	&	lez	urt	pe	dat	ave
	E	ju	off	co	pu	bu	&	me	pro
	F	le	fi	va	te	ga	ar∫	pri	th
	G	cou	te	tu	q3	fu	pau	in	al
Dez	A	im	c	ge	ge	[illegible]	lu	lu	pue
	B	ge	&	ge	oz	[illegible]	ma	ce	fe
	A	tune	co	vi	ma	[illegible]	ol	vr	fe
	lesbie	Anna	Cananf	Lena	Pol	gu	ajta	gr.	Cozus

Ut solis et
lune motus
et ad sui mo
tum requisita
que inpra
vulgares se-
pius videntur
ignorari Computo brevi
et metro declaremus Videlicet
circa primo que sunt illa
Secundo quot sunt Tertio
quid sunt [illegible] est liber 2us
qui intitulatur
compotus continet [illegible] maior
et dividitur [illegible] in libro
[illegible] autor in primo libro de-
terminat de distinctionibus temporum [illegible]
motum solis et lune [illegible] in isto
libro 2o determinat de motibus solis
et lune Et dividitur in partes [illegible]
[illegible] et executivam [illegible]
[illegible] contra [illegible] Sed [illegible]
[illegible] est divisa [illegible]
[illegible] Et [illegible]
[illegible] motus solis et lune
[illegible] libro et metro [illegible]
et [illegible] que requiruntur ad
motum [illegible] que sepius
videntur ignorari [illegible]
[illegible] est [illegible]
[illegible] ad [illegible]
motum solis et lune [illegible]
[illegible] autor
[illegible] primo [illegible]
[illegible] 2o [illegible]
[illegible] 3o [illegible]
[illegible] ad [illegible]
[illegible]
[illegible] 2a [illegible]
[illegible] est [illegible]
[illegible] motus
[illegible] est [illegible] motus
solis [illegible]
[illegible] quod sol [illegible]
[illegible] signo quo

[illegible] ad [illegible] et
[illegible] 365 [illegible]
et 6 horas [illegible]
et [illegible] quod plus [illegible]
[illegible] quibus [illegible]
[illegible]
[illegible] Et [illegible]
[illegible] pro [illegible]
[illegible] solis Et [illegible]
solis [illegible] et 365 diebus
et 6 horis Et [illegible]
[illegible] colligitur [illegible]
[illegible] Sequitur [illegible]

Est autem hec coniunctio
oppositio incensio et pri-
matio et signa celestia
et locus solis et locus
lune prima inventa
[illegible] in qua
autor [illegible] illa que sunt
[illegible] motus solis
et lune [illegible]
et [illegible]
[illegible] est [illegible] 2a
[illegible] quo [illegible]
[illegible] continet solis [illegible]
et [illegible]
[illegible] motus solis
et lune [illegible]
[illegible] 3o [illegible]
[illegible] nota
[illegible] 2a [illegible] est et [illegible]
3a [illegible] ad
[illegible] Dicit et [illegible] Ultra
[illegible] oppositio [illegible]
[illegible] celestia [illegible] solis et [illegible]
lune [illegible] 3o [illegible]
[illegible]
[illegible] motus
solis et lune [illegible]
[illegible] solis et lune
Et [illegible]
[illegible]
[illegible] motus solis
et lune [illegible]
[illegible] signis [illegible]

fuit sol et quando dicitur movere in alio signo tunc sol in quanto tempore luna de complet suum cursum. Secundum est quod complet mediocritatem motus sui et quod certam partem. Est quod ipse sit in fine vel in principio motus corporis [illegible] cum [illegible] [illegible] fit medio [illegible] [illegible] sequitur textus

Est autem coniunctio quod sol et luna sunt in eadem parte zodiaci i. sub eadem parte zodiaci. Hic autem describit [illegible] [illegible] [illegible] motus solis et lune et dividitur in septem partes [illegible] quod hic describit septem partes. Primo describit coniunctionem quod habent secundum zodiaci oppositionem zodiaci in [illegible]. Et iste partes [illegible] in [illegible] [illegible]. Coniunctio solis et lune est quod sol et luna sunt in eadem parte [illegible] sub eadem parte zodiaci. Et [illegible] [illegible] quod [illegible] est duplex quedam vera quedam media. Et [illegible] [illegible] duplex est motus solis et lune [illegible] [illegible] [illegible]. Coniunctio vera est quod lune verus motus sit in eodem gradu alicuius signi vel in minuto alicuius gradus vel in secundo alicuius minuti vel in tertio alicuius secundi vel [illegible] alicuius tertii [illegible] [illegible] est [illegible] [illegible] quedam signi [illegible] [illegible] [illegible] [illegible]. [illegible] media est quod lune [illegible] motus aliquorum planetarum sit in eodem [illegible] [illegible] [illegible] est [illegible] quid sit medius motus solis et lune [illegible] videri [illegible] autorem theorice planetarum

[illegible] est similis dicat super hac [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] est [illegible] [illegible] [illegible]. Coniunctio est lune sub sole [illegible] [illegible] [illegible] [illegible] est quod [illegible] lune [illegible] est [illegible] sub corpore solis sequitur textus

Oppositio est quod sol et luna sunt in oppositis partibus zodiaci i. quod est distant per maximam partem celi. Hic autem describit [illegible] et dicit. Oppositio est quod sol et luna sunt in [illegible] [illegible] zodiaci. Et contingit hoc quod distant abinvicem per maiorem partem celi. Unde [illegible] est quod oppositio est maxima distantia solis et lune abinvicem [illegible] [illegible] zodiaci oppositio [illegible] partes [illegible] que sunt [illegible] opposita [illegible] [illegible] [illegible] [illegible]. [illegible] est [illegible] [illegible] autem [illegible] [illegible] describere [illegible] [illegible] solis et lune [illegible] [illegible] [illegible] [illegible] hoc habent [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Interlunio est illa dies que est inter coniunctionem et preventionem. Coniunctio est eadem [illegible] in [illegible] [illegible] in [illegible] [illegible]

sumpta ut si hodie esset
in vesperis quinto tunc crās
in vesperis eadem hora
incipiet esset pridie [illegible]
Sic autem diffinit 3m mensem
Solarium quod est mansio
diei Quarto est una dies que
mediat inter quintam et primam
tam et hoc sub intelligit diffinitio
primam et dicitur primam est ab
hora quarta recepta in sexta
die ante Si hodie horam vespe-
rarum esset quinta tunc crās ab
hora in vesperis esset prima
[illegible] et sic 24 dicitur est
duplex scilicet artificialis et naturalis
Naturalis dies est spacium 24 ho-
rarum naturarum et diem sol
medio que 2m [illegible] [illegible] incipit
incipit Item 2m grecos incipit
in ortu solis 2m astronomos
in meridie 2m iudeos et roma-
nos solo a [illegible] Quartum festum
in media nocte Sed [illegible]
[illegible] [illegible] diem genera
gentes incipit sacrum Secundum
in medio [illegible] [illegible]
[illegible] facto [illegible] dicta
[illegible] sub [illegible] Sed
artificialis dies est tempus
solis super terram a quo [illegible]
[illegible] sic dicitur in textu
sic dies que est inter primam
et quintam [illegible] intelligi [illegible]
die [illegible] [illegible] ea que
dicit [illegible] a vespere est una
dies que mediat inter primam
[illegible] quintam Et que [illegible]
[illegible] primam dicit
primam est eadem hora [illegible]
[illegible] eadem est [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] ut dictum est [illegible]
[illegible] est [illegible] Sed [illegible] dies
naturalis [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] soli

tur [illegible] que ipsa [illegible]
sunt sub [illegible] solis et
Sed est [illegible] [illegible]
Dicit in textu [illegible]
[illegible] dicit [illegible]
[illegible] p [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] dicitur [illegible] que [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] intelligere [illegible]
[illegible] [illegible] [illegible] Et [illegible]
[illegible] hora [illegible] [illegible]
[illegible] [illegible] est [illegible]
[illegible] hora vesperorum [illegible]
diei Sed hora vesperarum
[illegible] diei [illegible]
hora [illegible] diei [illegible]
tunc hora [illegible]
diei [illegible] est elapsa [illegible]
tota dies est elapsa [illegible]
[illegible] [illegible] [illegible] [illegible]
quia sunt [illegible] [illegible]
Signa autem celestia
sunt partes circumferencie
celi in 30a p que sol
et luna et alii plane-
te movent proprio motu
ab occidente in orientem
contra primum mobile cum
in quam primi mobilis
proprius motus est ab
oriente in occidentem
Et iste motus est diurnus
[illegible] secundum omnes spheras
sub eo [illegible] Sequitur
[illegible] autem diffinit [illegible]
[illegible] Sed signa celestia
[illegible] [illegible] [illegible] in
[illegible] [illegible] [illegible]

moventur sol et luna. Et est
aliis planetis moventur [illegible] mo-
tu [illegible] in [illegible]
[illegible] ab
[illegible] et quod
motu [illegible] in [illegible]
[illegible]
[illegible]
[illegible] sub [illegible]
[illegible] est [illegible] Et
[illegible] celestes solis zodiaci
[illegible] Dividitur [illegible] zodiacus
[illegible] in 12 partes [illegible]
[illegible] partes [illegible] ecliptica
[illegible] quod [illegible] 12 [illegible]
[illegible] celeste et [illegible]
[illegible]
[illegible] ecliptica [illegible]
Et est [illegible] quod [illegible] luna
[illegible] in quibus planetarum
[illegible] motu [illegible]
[illegible] motus [illegible] motu [illegible]
[illegible] motu [illegible] Et [illegible]
[illegible] alio non motu [illegible]
[illegible] et debet [illegible]
[illegible] ab intelligentia [illegible]
[illegible] Et [illegible] motu [illegible]
[illegible] mobilis [illegible]
[illegible] tempore [illegible]
[illegible] Et est [illegible]
[illegible]
[illegible] de motibus solis
[illegible] debet [illegible]
[illegible] celestibus [illegible]
[illegible] celestia [illegible] partes zodiaci
[illegible] planetarum [illegible]
[illegible] zodiaci [illegible]
sub zodiaco [illegible] Et
[illegible] debet
[illegible]

**Locus solis est illa pars
zodiaci in firmamento sub
qua pars centri terre directe
locatur [illegible] luce [illegible]**

est assignandus. Et in ista parte
auctor [illegible] in [illegible]
[illegible] locus solis est illa
pars zodiaci in firmamento sub qua
directe locatur centrum planete
Et [illegible] est assignandus locus
[illegible] est [illegible]
[illegible]
[illegible] centrum est
[illegible] Unde [illegible]
[illegible] luna [illegible]
[illegible] centrum solis ad
firmamentum [illegible] in [illegible]
[illegible]
in firmamento [illegible]
Et [illegible] est [illegible]
[illegible] quod locus
solis et lune sit pars zodiaci sub
qua centrum solis et lune [illegible]
[illegible] solis
intelligatur centrum solis. Et
[illegible] in [illegible]
[illegible] locat [illegible]

**Iuxta quod est notandum quod auctor
hic docuit in hoc libro
secundo docuit [illegible]
[illegible] motu solis et lune
[illegible] motu semper [illegible]**

Et in ista parte auctor [illegible]
[illegible]
[illegible] et [illegible] Et [illegible]
[illegible] in [illegible] libro
de motibus solis et lune [illegible]
[illegible] motu [illegible]
[illegible] est [illegible]
Et [illegible]
[illegible] motu solis [illegible]
[illegible] motu solis [illegible]
zodiaci [illegible] lune [illegible]
[illegible] in [illegible] ad [illegible]
ad lunam [illegible]
centro mundi [illegible] firmamen-
tum [illegible]
[illegible]
[illegible] solis [illegible]

linea ab ipso centro a qui est
sit mundi et transeat ad punctum
B et sit primus arcus tunc transeat
alia linea ab eodem centro scilicet
a et transeat ad punctum C
signatum in zodiaco Et transeat
linea a centro eccentrici scilicet
ab ipso d per centrum solis scilicet per e
ad punctum ff et signatum in zo
diaco ut linea a c equidistat
linee d e f ergo arcus medii
motus solis qui fit a puncto
B ad punctum C Et arcus
motus veri ipsius differt veri
motus solis est arcus zodiaci
cadens inter caput arietis
et lineam a centro eccentrici
transeuntem per centrum solis
ad firmamentum scilicet b f Et arcus
medii motus [illegible] motus solis
qui fit a puncto b ad punctum
f Et verus motus [illegible]
Et medius motus lune sic
est arcus zodiaci in capite
arietis et latitudine sub sua
[illegible] secundum ordinem [illegible]
[illegible] Et talis linea a
centro eccentrici per centrum
epicicli lune sui girum Sit
centrum terre a [illegible] primus arcus
Et egrediatur linea a centro
mundi ad primum arietis quae [illegible]
[illegible] a b [illegible] Et egrediatur
alia linea ab eodem centro scilicet
mundi et transeat per centrum epicicli
[illegible] Et ad circulum [illegible]
[illegible] punctum [illegible]
[illegible] in zodiaco [illegible]
linea scilicet a c d tunc arcus
in zodiaco interceptus inter primum arietis
b et punctum d est arcus medii
motus lune Et verus motus
lune est arcus zodiaci cadens
inter lineam a centro [illegible]
mundi ad primum arietis [illegible]
pte Et inter aliam lineam a
centro [illegible] transeuntem
per centrum planete ad zodiacum scilicet
est linea a e f [illegible]
se patent [illegible]
[illegible]





Horum autem
ut prefatum est appel
latur ignorancia
i. quod fuit est
nonus decimus ciclus lunaris
hic scriptus revolvitur
sive complet tempus suum in
septuaginta sex annis et
hoc fit propter bissextiles et
quia annos quos vocamus volvit

Capitulum 29 in quo autor
ostendit quod predicta habent
fieri secundum ... solis et lune
et in tempore lune et appar-
entium et continet ... ista
Hoc capitulum ostendit spacium
temporis in quo cyclus lunaris
completur sine differentiis
... cum lunam quantum ad
... horas quatuor ...
lune cum sole. Et dividitur
in duas partes primo facit hoc
quod dictum est 2o [illegible]
... que ... si in ve-
nisse ... in hoc
2a ibi ... habet hic cyclus
... dicit. Et re-
movet astronomia que
possit hec cum predicta quo
... ipsa habent fieri
sine ... Secundum
hoc cyclus lunaris sicut hic
... completur ... in ...
magnitudine 6 annis. Sed secundum
... antiquitatem ... a-
liquot tot annos complet plu-
res ... manualis tam
... complet. Unde est
... annos bissextiles
et quos ... simul val-
... Et ... autor hic de-
clarat ... primum ...
in hoc 2o ... tangit ... primo
... quod predicta
habent fieri et hoc ...
cyclum lunarem ...
... tangendo
illud spacium temporis in quo
... differentiis ... lunas
... 2o ... est
... cum ... differentia
cycli lunaris perfecti ... cy-
clus lunaris perfectus est spa-
cium temporis 76 annorum in
quo revolvuntur ... differ-
entiis horarum ... cum
... solis et lune
Ille est ... cum cycli
lunaris perfecti continet 4or
cyclos antiquos lunares

Et patet sic quia dictum est prius cum
cyclus lunaris magnus in 19
annis completur antiquus vero in 19
annis ... con-
tinet quater decem et novem
annos. Et hoc patet per ...
per multiplicationem multiplicando
enim 19 per 4 et ... in toto
... 76. Item
Et ideo si aliquis miraretur
... quare autor iste assignat
ipsi cyclo perfecto tot annos vide-
licet 76. Ostendit autor intentio-
nem quia ... annos bissextiles
et quos ... tali tempore ...
revolvuntur. Sic quod tot sunt annorum
primorum vel 2orum vel 3orum post
bissextum sicut bissextilium in
tali tempore. Sed diceret aliquis
quare debet ... quod in
cyclo lunari magno tot sunt
anni bissextiles ...
post bissextum 24 et 37. Et ...
... 16 annos per 4or bissextiles
... 14
bissextiles ... illa 19 bissextiles
... a ...
... que sunt
duos quos qui dividuntur
per 3 ... in ...
... 19. Que ... debet
...
38 et illa 38 continent bis
19 tales quod sunt 19 primi post
bissextum 19 2i 19 3i. Et sic
equaliter valent bissextiles
... in cyclo magno
... perfecto. Ille est ...
quia 4or cycli ... ut dictum
est faciunt unum cyclum magnum.
Ille ... Et ...
quod ... tempore quo ...
... 1330 quod ... ambo tales
cycli fuerunt ...
... annos ... per 3
i. per tres annos quos ...
... manet ... Et

quia fuit 29 post bissextum preteritum. Et iste annus scilicet 1330 per quattuor [illegible] bissextiles fuit post divisionem remanent duo qui duo fuit 2us annus post bissextum. Item est sciendum quod iste computus est [illegible] sive computus qui scribebatur anno domini 1330 et currunt usque ad 46 annos [illegible] completos [illegible] in [illegible] pape [illegible] glose. Et alii glose [illegible]. Ubi prima bissextus. Et quia illa [illegible] autem dicat iste computus anni qui expirant. Et hoc patet annualiter quia iste computus expiravit et expiravit post 46 annos. Et tunc [illegible] incipit et durant usque ad 46 annos. Et de dictis [illegible] qui expirant iste computus. Et quod qui scribebatur anno domini 1406 [illegible] post [illegible] [illegible] antiqui [illegible]. Et de dictis in quibus [illegible] [illegible]. Et quod in [illegible] [illegible] in [illegible] in [illegible] [illegible] et quod [illegible] aliquid [illegible] in [illegible] [illegible] antiqui. [illegible]

Et hic cyclus vocatur magnus. Alter vero antiquus qui perficitur in decem et novem annis. Et dicitur imperfectus quia bissextiles et quos annos non equaliter [illegible] volvuntur. Unde dicit bissextiles si iam non addetur incipit volvere cycli antiqui

in 19 annis. Et autem illa dicta facit duplicitatem in quantitate et in alys 2um ordinem cycli antiqui. Hic autem [illegible] cyclus hic in [illegible] [illegible] cyclo antiquo. Et dicit in [illegible] 2um quod duplicem [illegible] primo [illegible] perfectum et imperfectum. Et [illegible] [illegible] aliquis [illegible] in [illegible] [illegible] [illegible] [illegible] cyclus [illegible] [illegible] cyclus sive perfectus. Et [illegible] in 19 annis [illegible] cyclus [illegible] perfectus [illegible] in 19 annis [illegible] bissextiles [illegible] volvuntur. Et [illegible] cycli [illegible] perfecti. [illegible] in 19 annis [illegible] bissextiles [illegible] [illegible] bissextus [illegible] [illegible] [illegible] [illegible] [illegible]. Et [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Et [illegible] [illegible] [illegible] cyclo magno [illegible] cyclo antiquo [illegible] quod in [illegible] cycli magni et [illegible] cycli antiqui

Aliquis autem pueris

cyclum antiquum sciat quod
magnus et antiquus con-
cordabant anno domini
1330 hoc est autem in
primo anno sed et tunc
fuit 29 annus post bisextilem
pro cyclo lunari [illegible] se-
cundo magnus cyclus. Post nos
quando non [illegible] nisi quando
primus annus eius cycli an-
tiqui est in secundo anno post bi-
sextilem. Tunc enim concor-
dant. Et hoc semper non acci-
dit nisi post 16 annos
[illegible] alteri [illegible] hoc
cyclorum ad invicem [illegible]
concordancias et discordancias
[illegible] aliquis scire [illegible]
cyclum antiquum [illegible] in quot annis
[illegible] et in quoto anno primus
[illegible] 19 annus [illegible]
[illegible] sequentem [illegible]
cycli [illegible] magnus et antiquus
concordabant [illegible]
anno domini 1330 hoc est in
[illegible] anno fue-
runt in primo anno [illegible]
[illegible] fuerunt [illegible]
magnus [illegible]
[illegible] Et tunc [illegible]
[illegible] et [illegible]
annus fuit 29 annus post bi-
sextilem. Et quando [illegible]
[illegible] magnus cyclus [illegible]
[illegible] annus post
cycli antiqui est 29 annus
post bisextilem tunc [illegible]
[illegible] concurrunt [illegible]

[illegible] concurrunt [illegible]
[illegible] Et [illegible]
[illegible] 16 annos
[illegible] est [illegible] 24 cyclus
[illegible] magnus [illegible]
annos [illegible]
[illegible] ab anno [illegible]
domini debent [illegible] 1339 3
et [illegible] remanent
debent [illegible] 16 et illud
quod remanet [illegible]
[illegible] magnus cyclus
[illegible] ad annum in quo
[illegible] est [illegible]
cyclus magnus ad [illegible]
[illegible] annum
addatur in [illegible]
domini 1339. Et [illegible]
[illegible] 1482. Et illud [illegible]
[illegible] 16. Et quod
remanserit [illegible]
est cyclus magnus [illegible]
[illegible] Et [illegible]
remanserint plus quam 16
[illegible] 16. Et illud [illegible]
quod remanet post [illegible]
[illegible] cyclus [illegible]
et [illegible] remanserit tunc 16
est [illegible] magnus cyclus
[illegible] anni domini [illegible] 398
[illegible] quod [illegible]
[illegible] et 6. [illegible] remanet
magnus [illegible]
[illegible] quod [illegible] in
[illegible] domini debent
[illegible] 39. [illegible] quod [illegible]
[illegible] est in [illegible] anno
cycli magni. [illegible] quod
[illegible] 16 annos [illegible]
[illegible] annos [illegible]
cycli magnus. [illegible]
[illegible] annus [illegible] cycli
magni post bisextilem [illegible]
annos domini [illegible]

resultaverit in uno die [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible]. Et [illegible] [illegible] [illegible] [illegible] [illegible] quo in [illegible] [illegible] [illegible] [illegible]. Et [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible]. Et [illegible] ista punctura [illegible] et in [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] fuerit [illegible] [illegible] [illegible].

Dictis ergo prenotatis ad coniunctionem solis et lune punctualem est procedendum de qua dicunt tales versus qui diligenter inspici debent ne in dictate [illegible] [illegible] [illegible] alterentur. [illegible] est [illegible] [illegible] [illegible] tractatus [illegible] in quo autor dicit [illegible] solis et lune [illegible] [illegible] [illegible] habent fieri. Et [illegible] in [illegible] partes [illegible]. [illegible] dicit [illegible] quomodo solis et lune [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] ad [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] partes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] tales [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] aliqua premissa

[illegible] [illegible] [illegible] [illegible] [illegible] punctualiter solis [illegible] [illegible] de qua dicunt tales versus qui in [illegible] [illegible] qui debent inspici bene ne [illegible] in [illegible] vel [illegible] ne [illegible] alterentur et [illegible]. [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] ponit autor in [illegible] est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] est [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] in [illegible] [illegible]. Si [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] vel habent [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ut in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] in [illegible]

[illegible]

vi9 bissextu bino laudat
Ista v̄sus ꝯfinuit cicla
magnus ꝑ antiq̄m in
vento adẽm aliud quã
p9 bissextilem

[illegible]

[illegible]

[illegible]

[illegible]
[illegible]
Alius [illegible] ad quid valet
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] complerj [illegible]
tempore [illegible] 2o valet ad
[illegible]
[illegible]

Ba | ad | dif | e n | ga | bit
dif | secli | top | bak | z t
zag | to | pon | qt | sing
[illegible] | pon | eo | post bissextum
[illegible] tercio ista versus
desinunt cyclo magno
vel perfecto ad [illegible]
post bissextilem [illegible]

[illegible] | par | kip | nab | [illegible] | dun
kip | [illegible] | tet | [illegible] | [illegible] | aq
[illegible] | [illegible] | [illegible] | aq | pub | iz | luc
hab | dart | bissextilem
Ista versus valent ad anno
bissextilem [illegible] magni
cycli [illegible] per [illegible]

xit | zaf | [illegible] | [illegible] | xit
ma | nab | [illegible] | [illegible] | [illegible]

[illegible] | bem | to | [illegible]
zag | to | da | post bissex
primo tercio [illegible]
[illegible] primo anno cor
respondent post bissextilem
ad annum cycli magni
[illegible] per [illegible] [illegible] per [illegible]
[illegible]
post bissextum [illegible] tercio
[illegible] 19 [illegible]
[illegible] post bissextum [illegible]
Ba ad [illegible]
[illegible]
[illegible]
[illegible]
post dat [illegible]
[illegible]
top [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] magno perfecto
[illegible] post bissextilem

Sunt [illegible] par kip
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] bissextilem [illegible]
[illegible]
par [illegible] kip [illegible]
[illegible] nab [illegible]
[illegible] dun
[illegible] kip [illegible]

[illegible]

Item nota quod ista ciclus infra scripti zaz et sequentes inveniuntur et sua cum concordat cum sua predictorum signum. Et inveniunt sicut patet falsacionem non inde horas et multa incommoda et sunt

quatuor in uno. Et canon qui dicitur prelacionis supradictorum signum idem et valet prelacionem infra scriptorum voluorum signum. Sequitur signus

23 12 24 19 11 1 16 8 23 11 13 14

zam zt pa 99 zil no

[illegible]

Ista usque desinunt ... anno ... bisextilis

[illegible]

Ista usque desinunt ... anno ... bisextilis

[illegible]

Ista usque desinunt ... anno ... bisextilis

[illegible] currens sunt aliqui
anni per [illegible] annos incipi-
endo ab anno domini 1406
Qui est primus [illegible] prima [illegible] illorum
[illegible] et [illegible] alterius
[illegible] anni [illegible] illorum
[illegible] Et [illegible] currendo
[illegible]
[illegible] et [illegible] post
[illegible] ad [illegible]
[illegible] Et [illegible]
[illegible]
[illegible] anni [illegible]
[illegible] et [illegible]
[illegible] annus
[illegible] Et [illegible]
[illegible] 7 et [illegible]
[illegible]
[illegible] Et [illegible] ar-
[illegible]
[illegible] Et [illegible] alia
[illegible]
[illegible]
[illegible] alium

Cum autem scire volumus
que littera sit dominicalis
[illegible] anni cicli magni Et
[illegible]
primo annum cicli antiqui
Et videre quotus sit annus
predictorum quatuor an-
norum [illegible] anni [illegible]
[illegible] Et utrum
sit annus bissextilis vel
vel primus vel 2us vel 3us post
bissextilem Annus facto
incipe [illegible]

[illegible] 1 2 3 4 [illegible]
[illegible] et [illegible]
[illegible] ad annum
cicli antiqui ab uno di-
gito [illegible] ad aliud
[illegible] articulis
[illegible] Et [illegible]
[illegible] illo anno [illegible]
et [illegible] membro [illegible]
[illegible]
[illegible] ad articulum [illegible]
Et que littera [illegible]
[illegible] fuit [illegible] anni
illius Cum [illegible] littere
[illegible] quatuor
[illegible] littere
[illegible]
[illegible] vel
[illegible] || [illegible]
[illegible] vel [illegible]
et [illegible] predictorum [illegible]
Et [illegible] 2a [illegible]
[illegible] 2a [illegible]
[illegible] Et
Cum [illegible]
[illegible]
anni cicli [illegible] magni
[illegible] primo [illegible]
[illegible] cicli antiqui utrum sit
[illegible] vel 2us vel 3us post bissextilem
vel [illegible] bissextilis Et
[illegible] Annus
facto [illegible]

Est [illegible] est [illegible] quando [illegible] sunt [illegible] quantum [illegible] eodem sole [illegible] ex duo [illegible] priore [illegible] est quod habeat eodem [illegible] sunt 4 [illegible] ut 19 [illegible] [illegible] [illegible] [illegible] Secundo [illegible] [illegible] [illegible] [illegible] Est [illegible] quod [illegible] [illegible] [illegible] Et 24 et 39 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] Si [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] habeat [illegible] Sic [illegible] [illegible] [illegible] [illegible] [illegible] est ut dictum est Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] dictum est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] est et [illegible] [illegible] est [illegible] [illegible] Quod [illegible] [illegible] [illegible] [illegible] est [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] talis hora est [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] est Et [illegible] [illegible] [illegible] [illegible] [illegible] talium horarum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] dicit auctor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Nota vbi iste tytellus [et] ponit nichil sit Si cum [illegible] sic ponit nullam horam significat Si etiam [illegible] nullum [illegible] sit Non [illegible] alie [illegible] sunt [illegible] [illegible] [illegible] alphabeti Et non solum in isto [illegible] sed in omnibus aliis [illegible] huius libri semper sunt [illegible] [illegible] alphabeti Aliter [illegible] ponitur aliqua [illegible] [illegible] [illegible] [illegible]

[illegible]

Pone quod nonus est quod hora est maxima [illegible] post diem naturalis [illegible] non hic sumptus est pro maxima post unius hore que inquam [illegible] sunt explicanda et erunt 60.

Secundo quod dies naturalis in hoc libro incipit a media nocte et durat ad sequentem mediam noctem [illegible] quod Christi fideles incipiunt diem naturalem

[illegible]

[illegible] est et ipse [illegible] / [illegible]

Anni [illegible] Secundum [illegible] [illegible] [illegible] incipit in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] incipiunt [illegible] [illegible] [illegible] [illegible] incipiunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] autem [illegible] [illegible] [illegible] [illegible] est [illegible] [illegible] [illegible] [illegible] Et [illegible] autem [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] etc.

Nota aliud usus incipit computus dierum horarum et minutiarum conjunctionum currentes [illegible] particulam imperfectum et est iste etc.

Et nota quod v [illegible] fiat

v q v e n v b k v
s g v p d v m v a
m r f v o t v l t v h.

[illegible] autem [illegible] [illegible] anni. Et [illegible] quod [illegible] in quo et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Aliud [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] est [illegible] v q etc. [illegible] [illegible] a b c d e etc. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alpha[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alphabeti [illegible] [illegible] [illegible] [illegible] [illegible] Et ideo [illegible]

[illegible]

Notandum est quod quelibet litera facit unum annum cycli lunaris vel cycli imperfecti vel perfecti semper dicens quinque et decem excepta ista litera v que non facit sed implet loca vacua in locis de membrorum. Ut autem pateat que sit litera anni cycli aurei vel imperfecti aut anni ut prius per 23 et 15 usque ad 4 anni cycli atqui[?] Cuius facta una a b c d et eundem articulum et que tunc litera locatur in membro signato est litera anni que est secundi capitula pro predictis annis per 3 v q

vite inchoandus est in primo membro indicis et principalis accipiatur unum membrum divisionis provenit ad literam dominicalem cycli atque ¶ cum tunc articulus est pergendus cum in tali articulo est situatus [illegible] quociens quando [illegible] ¶ [illegible] per tractatum [illegible] et [illegible] ¶ ut [illegible] quociens [illegible] est [illegible] [illegible]

[illegible]

¶ Nunc ad quociens in dies habeatur inchoandus est initio dicte [illegible] [illegible] [illegible] [illegible] quia in [illegible] ¶ Et tunc [illegible] cycli [illegible] ¶ Et que [illegible] membro [illegible] dierum quociens [illegible]

[illegible]

Nota quod quedam litere saltant
ante situacionem et quedam post situ-
acionem vel gracionem ut patet in
[illegible]
f g d e k t dicuntur duo post
[illegible] s a b c n
ante [illegible] l b r e a primo
[illegible] litere [illegible] parte
[illegible] saltant post situacionem
in 3o [illegible] post [illegible]
hoc intellige quod [illegible]
litere [illegible] et litere
[illegible] ante situacionem saltant
[illegible] post [illegible]
altero vero quedam litere [illegible]
situacionem saltant in primo
[illegible] post [illegible] Et tunc
[illegible] utrumque sunt saltus
[illegible] et sic ut predictum
est patet ut [illegible]
[illegible] saltum [illegible] sunt
[illegible] sunt saltus [illegible]
[illegible]

eclipsationis et in 2o post eclipsationem
non sentiat primi [illegible]
Sed quid a b ut 2 aliquam
illarum est luna dum in eclipsatio
ut in primo casu post eclipsatio
fuit quibus illarum [illegible]
duo sentit primus luna [illegible]
[illegible] ad [illegible] minutorum [illegible]
[illegible] ad [illegible] minutorum in [illegible]
[illegible] ad [illegible] minutorum [illegible]
[illegible] digiti. Sed [illegible]
[illegible] in 2o [illegible]
[illegible] post eclipsationem [illegible]
luna [illegible]
[illegible] minutorum [illegible]
[illegible] ad [illegible]
[illegible] in primo casu post
eclipsatio [illegible]
[illegible] in 3o casu post
eclipsatio [illegible] minutorum
[illegible] post eclipsationem
[illegible] luna [illegible]
[illegible] minutorum
[illegible] digiti [illegible]
[illegible] a b c d e
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

eclipsatio [illegible]
[illegible]
[illegible]
[illegible]
[illegible] aliquam et
[illegible]
[illegible] aliquam [illegible]
[illegible]
[illegible]
[illegible]
[illegible] minutorum [illegible]
[illegible] aliquam [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] filii gregorii [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

Item non alios usus novos
[illegible] A . f . dat ... p[illegible]
[illegible] aut locantur Nam pre-
tant c . d . g . B ... pre-
tant A . b . c . f . h . i . k . l . m .
n . o . p . q . r . s . t . saltant in
duo [illegible] aut locantur
z . b . v . c . a . o . l . p . ... p[illegible]
[illegible] aut locantur

[illegible]

[illegible]

Nomina autem mensium
lunarium et planum Et
primi duo ... patent
prius sub [illegible]
Mar / ap / ma / iun / iul /
aug / sep / oc / no / de / ia / fe /
cu / Mar / ap / phil / iu / iul /
... / ... / ... / ... / ... / ti / bar /
[illegible]
... / Ab / a / phil / ...

[illegible]

[illegible] conclusionis ... Et alternatim usque ad finem ... in differentia partium ... minutorum ... Secundum textum

Primus versus istorum unum continet novum annum medium lunarem et solarem. Secundus versus continet partes proportionales medios lunares solaribus coniunctos. Tertius versus continet partes duobus mediis lunarium coniunctas. Cum autem primum volueris per duos minutos medios sive lunares sive solares. Sed una ... ad ... usque ad finem que ... Et si vis ... illum ... solari ... ad illum articulum ... plu ... duo ... Et ... partes ... [illegible]

[illegible]

Dicendum quod primus versus
ad nouam mensium de primis
dicunt 12 mensibus solaribus
lunaribus et 13 Et assignatur
talis causa quia in anno in-
[illegible] 13 lunationes

Nota mensis solaris est [illegible]
quod sol intrat diebus p[illegible]
transit [illegible] Lunaris
est [illegible] quod luna
intrat diebus recedit a sole
et iterum redit ad solem

[illegible]

[illegible]

Sequitur versus qui audit
in quibus annis sint 13 lu-
naciones sive in quo [illegible]
lunares vide versus

Hic / est / gravitas /
caritas / nisi / quisque /
simulatus. / In hoc
versu vide literam anni
cycli antiqui pro aliori-
bus [illegible] in primo
[illegible] illo anno
habebis 13 lunaciones
Et ista 13 lunacio debet
locari circa finem anni
et vocatur embolismalis
[illegible]
[illegible]
[illegible]

[illegible]
[illegible] embolismalis
[illegible]
[illegible]
[illegible]
[illegible] lunaciones [illegible]
[illegible] cycli lunaris antiquus
[illegible]
embolismalis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
cycli antiqui [illegible] illo anno
habebis 13 lunaciones [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] embolismalis
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
[illegible] ad [illegible]

Et annus embolismalis [illegible] per [illegible]

Quandocumque prima [illegible] fuit inter pascha [illegible] mensis [illegible] marcii et [illegible] inter [illegible] pascha [illegible] et inter [illegible] pascha [illegible] [illegible] [illegible] [illegible] [illegible]

Et [illegible] autem [illegible] [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] Gregorio [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible] marcii [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Et [illegible] [illegible] in quo [illegible] fuit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] / [illegible] / [illegible] / [illegible] /
[illegible] / [illegible] / [illegible] /
[illegible] / [illegible] / [illegible] / [illegible] /
[illegible] / [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]

[illegible]

Iste usus reliquorum mensium
quintonos ultra martinum
horas et minuta ondunt. ...
... martino ...
... luna ...
... horas quin-
... repudiant. Et ...
luna ...
... patet
quod ... iste
Cum igitur quintonos

reliquorum mensium lunarium
... que ... quod
que sit ... duos mensis
lunaris illius ... predicta
ab illo ... adp
... antiqui
... tibi duos quintonos

[illegible]

[illegible] illud [illegible]
[illegible] novo [illegible]
[illegible] cadit per [illegible]
[illegible]
Et quando [illegible] dies [illegible]
[illegible] ut [illegible]
[illegible]
[illegible] cadit [illegible]
[illegible] cadit per [illegible]
[illegible] Et [illegible]
[illegible] computatione [illegible]
[illegible]
[illegible] dies [illegible]
[illegible]
magni cycli [illegible]
[illegible] aut [illegible]
[illegible]

Quo facto querere que
sit prolixitas cycli magni
Et tunc [illegible] illud [illegible]
[illegible] ad [illegible]
[illegible] quem quesivisti cycli
[illegible] Aut pone prolixitatem
cycli magni ad [illegible]
[illegible] in [illegible]
[illegible] Et inde [illegible]
aliis [illegible]
[illegible]
[illegible] Et [illegible]
[illegible] quartarum
[illegible] est [illegible] que
[illegible]
que [illegible] horarum et minutorum
[illegible] Aut horas
[illegible] adde horis [illegible]

prolixitas anni cycli magni computata
[illegible] prolixitas ad minuta [illegible]
Aut si unus horarum [illegible]
excedit 24 adde unum diem
super diem inventum et
unus horarum [illegible]
[illegible] horas quartas
[illegible] et computatis minuta
[illegible] ad minuta [illegible] et
si tunc excreverint 20 minuta
[illegible]
[illegible] resultatus in
[illegible] minuta [illegible]
Aut horas [illegible] ad
et ad horas [illegible]
[illegible] horam [illegible] recepta
Si autem unus utrumque
non excedit tunc [illegible]
adde minuta [illegible] horas
horas Et tunc horam [illegible]
minuta [illegible] inventum [illegible]
[illegible] in media nocte
hoc est [illegible] in
[illegible] tunc [illegible] fiat in
media nocte Si autem
hora tunc [illegible] erit [illegible]
[illegible] Si [illegible] tunc
[illegible] erit [illegible]
Quod [illegible] 18 tunc [illegible] erit
[illegible] Nota

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Item pluviata. Si perfecerint 20 pelles ad[...]
tunc homines unius diei resultantibus [...] condet
unde quantum[...] Sed homines pelles anni ad[...]
hoc quantum dictas ad ipsa homines annum[...]
recepta. Sed unde convenient [...] ut [...] pro hac [...]
homines pluviatis condet 24 pelles ad[...] unius diez

Sup dictum in beneficio [illegible] 7 mixtis bonis superfluis
cedit bonis quando [illegible] manet de [illegible]
Si vero [illegible] ad credit[illegible] utrum [illegible] tenetur vel [illegible] ¶

q[illegible] omnis quociens sit in
venit debent ex primo [illegible]
dic p[er] 4 tot horas et restat
minuti erit mansio. Et quia
[illegible]

[illegible]

[illegible]

[illegible]

[illegible] in media nocte diceret
quod est punctum [illegible]
[illegible] i. si [illegible]
plenilunium in horis [illegible] quando [illegible]
in [illegible] nocte. Sed si fuerint
ibi in superficie [illegible]
quando erat [illegible] perfectus
[illegible] i. quod [illegible] restitutio
[illegible] et [illegible]
partis. Sed si fuerint 12
hore in superficie [illegible] quando
erat [illegible] in meridiem. [illegible]
i. quod [illegible] Sed si fue
rint 18 hore in superficie
[illegible] erat [illegible]
[illegible] Sunt [illegible]
[illegible] horas
[illegible] aliquid hore sunt in
superficie [illegible]
[illegible] in [illegible] in
[illegible] quando [illegible]
[illegible] horas [illegible]
[illegible] epilogat [illegible]
Sed [illegible]
[illegible]
[illegible] est [illegible]
[illegible] est [illegible]
[illegible]
[illegible]
[illegible]

Oppositionis [illegible]
[illegible] [illegible]
[illegible] quando
septimum [illegible] et si [illegible]
rint 20 [illegible] ut dictum est
[illegible] horis [illegible]
18 horas et si [illegible]
24 [illegible] ut [illegible]
[illegible] 14

dies [illegible]
et [illegible] tibi [illegible]
Sunt [illegible]
et septimum [illegible]
quatuor [illegible]
sibi luna [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 20 [illegible]
[illegible] horarum. [illegible]
[illegible] horas [illegible]
[illegible] 18
horas [illegible]
[illegible] ut [illegible]
dictum est [illegible]
[illegible] 24 [illegible]
[illegible]
[illegible]
[illegible] 14 dies [illegible]
[illegible]
[illegible]
[illegible]
est [illegible]
[illegible]
[illegible]
[illegible] 14 dies
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

2o quia [illegible] 3o quia [illegible] ... [illegible]

Primario sic patet
... [illegible]
... [illegible]

... [illegible]

Hic est Nouum est [illegible] iste quando nos [illegible] p[er] Oxfordiam. Et quanto ad aliarum regionum sic p[atet] q[uod] circumstantes aliqua regio distat ab Oxfordia per duo decim milia versus oc[ci]dentem tenens ad unum minutum. Si ad predicta regio fuit versus occidentem tunc idem minutum est publiceum et hoc est in capite de tantum sub longitudinem [illegible]

Posita bissextis minutis [illegible] unum. Si sol surgit ab Oxfor[dia] ... [illegible]

... [illegible]

[illegible]

Notandum est ut plo-
gum temporis spacium deperit
error incidat. Est sciendum
quod quocumque [illegible] anno
cycli decemnovennalis ut secundo
anno post bissextilem [illegible]
est revolutus cycli magni

·pol·1·

et est sub [illegible] anni 15
minuta et ab horis quibus hora
que revolutus fuerat Anno
domini 1330 aqua revolutus
[illegible] fuit decemnovennalis
Et statim post hanc revo-
lutionem predictas horas et
minuta sub[illegible] secunda
dupla predicta et subtracta
tercia tripla et in [illegible]
est computandum. Sufficiant
igitur de universo predictorum

[illegible]

[illegible]

Signorum autem nomina per ordinem patent per versus istos. Est aries thaurus gemini cancer leo virgo libraque scorpius architenens capri amphora pisces. Nam aries est primum signum. Secundum thaurus et gemini tertium. Cancer quartum [illegible]

[illegible]

[illegible]

[illegible]

Quodlibet aut p[ro]ductum signorum [illegible] signis plus stat in 3a. Unde aut signa apparent aliis p[ro]pter p[ro]prias p[ro]prietates. Nam p[ro] [illegible] amicos [illegible] libra quia libra apparet. Electio Per

[illegible]

Unde quodlibet istorum signorum predictorum dividitur in 30 partes equales. Equales autem gradus vocantur. Et per consequens sequitur quod totus celus [illegible] sunt 360 gradus. [illegible] et [illegible] 60.

[illegible]

[illegible]

Quoniam de signis in 30 aliqualiter tractum est et [illegible] [illegible] dubia aliquam [illegible]

depredicte. Et hoc est secundum
quod sit 2^a et que dividitur
primo est secunda de spera [illegible]
2^a continet. Ista pars autem
[illegible]

[illegible]

plurima

Spera igitur est corpus rotundum cuius centrum perficitur
in cuius superficie in medio
ponitur punctus unus per quem
si ducitur una linea ad
circumferentiam ambas talis
linea dividit speram

in duas partes equales.
Et ille punctus in medio
vocatur centrum terre et linea
transiens per punctum predictum ad
circumferentiam vocatur axis
spere. Puncta autem terminantia
hanc lineam vocantur poli
mundi. Et superior pars
vocatur polus articus,
inferior vero vocatur
polus antarticus.

Ista pars autem [illegible]
[illegible] et dividitur
in duas partes quarum prima
[illegible] de spera 2° et 3° in
[illegible]

[illegible]

minimam dimensionem est circulus sive
polus et omnis polus est centrum
Item nota circuli duo [illegible] est [illegible]
[illegible] dyametrus [illegible]
dyameter est linea in figura
superficiali plana per maximam
dimensionem ducta sicut patet
in quadrato si ducatur una
linea quadrilaterie [illegible]
ducitur ab uno angulo
ad alium. Sed axis est linea
[illegible] rotundi [illegible] utroque po-
[illegible]
[illegible]

[illegible]

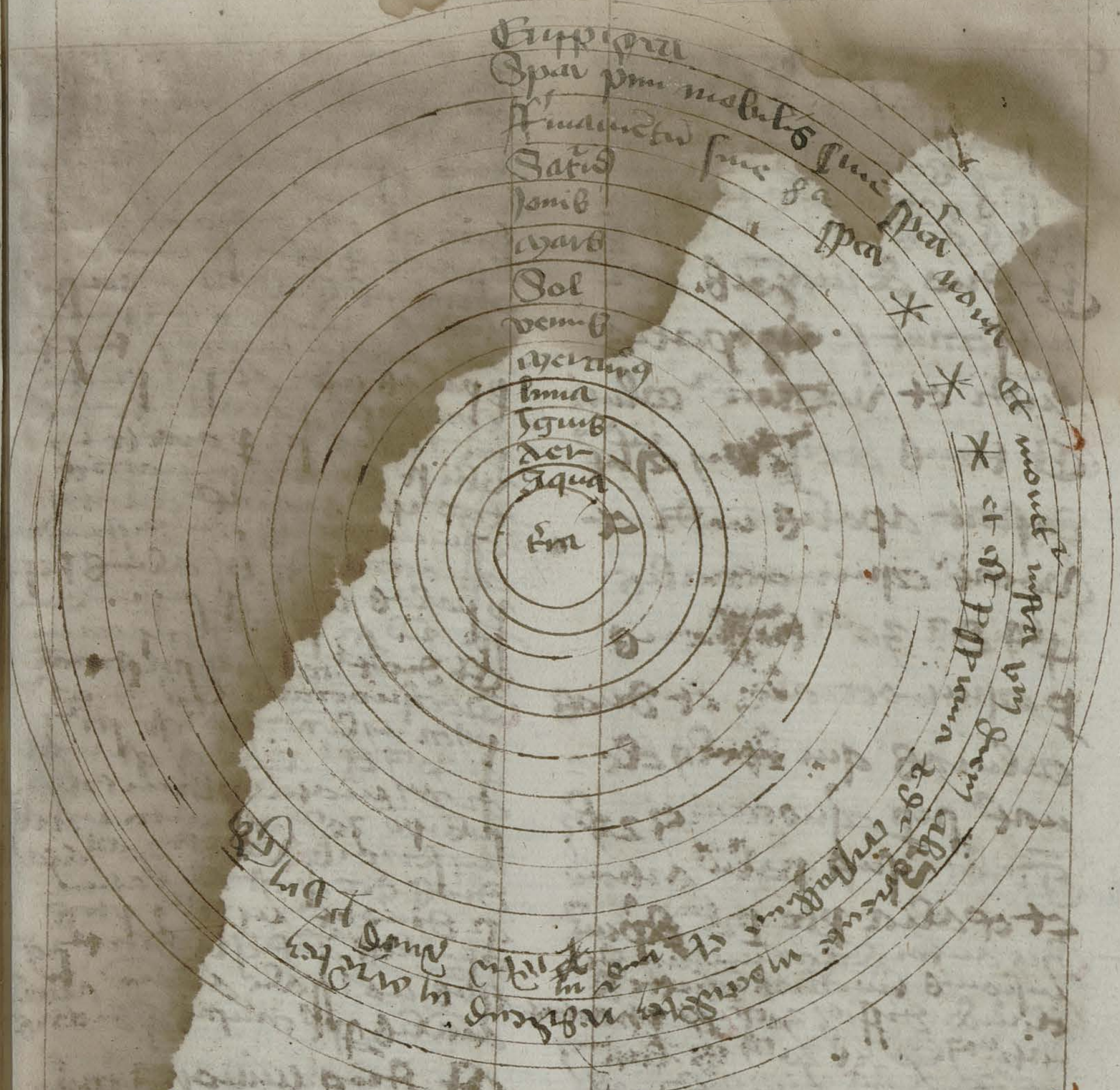
[illegible] valens [illegible]
[illegible] autem
[illegible] quibus [illegible]
[illegible] patet [illegible]
[illegible] 2o celi. Et [illegible]
[illegible] dicitur
[illegible] textu

Spere mundi autem sunt 14. prima
et maxima dicitur empirea.
Deinde spera primi mobilis.
Deinde spera octava sive
stellata. Deinde septima
spera septem planetarum
scilicet saturni iovis martis. De-
inde spera ignis. Deinde
spera aeris et aque terre que
est minima spera. Item
quedam sunt spere eterne
quedam elementales. Eterne
sunt decem superiores. Ele-
mentales sunt 4or infe-
riores. Item et spere
que eas movent puta
maxima et minima. Ali-
ter spere omnes sunt mobi-
les de loco ad locum preter
mobile motu [illegible]
et motum alterantur in
accidentibus et etiam [illegible]

in orientem [illegible] habens est
solum omne firmamentum
sine [illegible] speris septem
speris planetarum. Secundo
ad orientem proprie et motus
septem planetarum est proprius
ab occidente in orientem.
Iste motus [illegible] proprie motu
[illegible] anno [illegible] gradum
Saturnus in [illegible] per unum
gradum movetur. Jupiter in 12
diebus per unum gradum movetur.
Mars in duobus diebus
per unum gradum movetur. Sol movetur
[illegible] in uno die per unum
gradum. Luna in duabus
horis per [illegible] per unum
gradum movetur [illegible]
in medio [illegible]

[illegible]

[illegible]



ipsa licet tempus [illegible] appa-
rent ut apparentur [illegible]

Item spera octo sunt circuli
principales quattuor maio-
res et equales qui di-
vidunt zodiacum in 3 [illegible]
Secundus non [illegible] quilibet
[illegible] Et duo sunt [illegible]
et equales et duo mi-

nimi [illegible] equales [illegible]
Item spera [illegible] autem [illegible]
[illegible] qui est [illegible] [illegible]
[illegible] longitudinem [illegible]
[illegible] in spera [illegible]
[illegible] dimensione [illegible] duo
[illegible] Item spera
[illegible] [illegible]
[illegible] [illegible]
[illegible] in spera
[illegible] duo [illegible]
[illegible] in spera [illegible]
[illegible] [illegible]
[illegible] minimi [illegible]

[illegible]

Et duo de maioribus 4or
intersecant se in polis
mundi et vocantur coluri

Et tres de eisdem aequaliter
distant a polis mundi et
vocantur aequinoctialis
[illegible]
per aequinoctialem et duos
coluros [illegible]
[illegible] super aequinoctialem 23
gradibus versus polum arcticum
et alia parte [illegible]

[illegible]

[illegible]

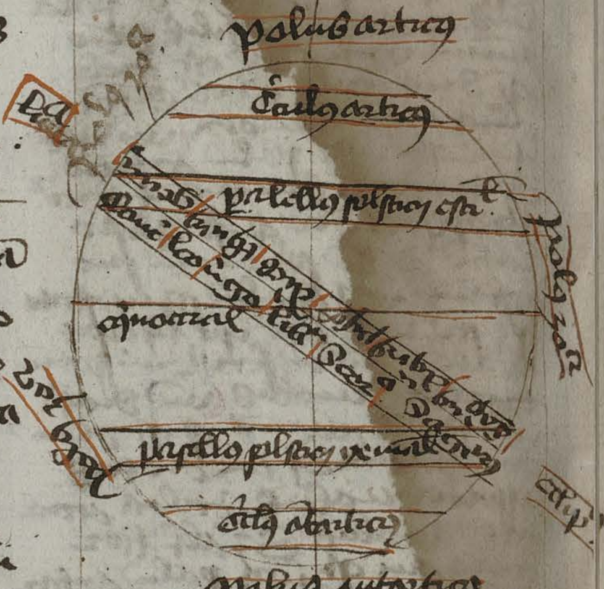
Et duo minores [illegible]
intersecant [illegible]
[illegible] super aequinoctialem
[illegible] polum
arcticum et vocatur
quilibet eorum paralellus
polaris [illegible]
[illegible]
[illegible]

versus polum antarticum
et vocatur parallelus sol-
sticii yemalis quia est li-
nea ultima dicta per quam est
sol in capricorno etc.
Hec dicta sunt in medietate [illegible]
[illegible] Duo circuli [illegible]
[illegible] zone [illegible]
[illegible] in locis in circulis est super [illegible]
[illegible] versus polum arcticum
[illegible] Secundo est [illegible]
duo circuli dicuntur paralleli
[illegible] distinctus [illegible]
[illegible]
distant a [illegible] equinoctiali [illegible]
[illegible] et [illegible] est paral-
lelus equinoctialis [illegible] Dicit duo
minores circuli [illegible] est
quod duo circuli [illegible]
[illegible]
qui est circa polum arcticum
dicitur tropicus estivalis et dicitur
tropicus cancri quia est [illegible]
[illegible] sol [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] qui est circa polum antar-
ticum [illegible] tropicus
yemalis [illegible]
[illegible] polo
antarctico [illegible]
Et duo minimi circuli
distant a polis quantum
zodiacus declinat super equi-
noctialem et in [illegible]
[illegible] polo zodiaci
et circulus [illegible] antarticum quem
circulus antarticus [illegible]

circa polum antarticum qui
circulus antarticus dicitur
ut patet in figura precedenti etc.
Hec dicta sunt [illegible]
[illegible] Duo tamen circuli sunt
qui tantum distant a polis
mundi quantum zodiacus etc. ut patet [illegible]
Secundo est [illegible] auctor [illegible]
dicit [illegible] poli zodiaci [illegible]
[illegible] et zodiacus declinant
ab equinoctiali [illegible] poli
zodiaci a polis mundi declinabunt
[illegible] ut dictum est [illegible]
equinoctialis circuli [illegible]
distat ab utroque polorum mundi
[illegible] Dicit auctor
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
et uterque polus zodiaci [illegible]
circa polum [illegible]
[illegible] Sequitur textus
[illegible] polum
versus polum arcticum et
circa polum antarticum
Et luna dividitur [illegible]
[illegible] eclipticam dicitur
in qua sol [illegible]
quod luna ei coniungitur
in [illegible] luna [illegible] sol eclip-
sari et [illegible] fit quia
luna non [illegible] in eclip-
tica luna. Secundo [illegible]
per quem declinant ab [illegible]
[illegible] eclipticam
et [illegible] circulus [illegible]

lineam eclipticam in duas
partes quarum una in septen-
trionem vocatur caput dra-
conis alia cauda draconis
Item per quas etiam intersectiones
eclipsis contingit que intersec-
tiones sunt mobiles de loco
ad locum respectu accidentium
que ad patent in 30o
seu in figura super posita
Hic ista parte autor docet de
latitudine zone et primo facit hoc
2a [illegible] de latitudine de signis
[illegible] in qua parte sit hec
signi [illegible] 2a ibi ponit
[illegible] in duo primo facit
hec [illegible] 2a [illegible]
[illegible] que contingunt [illegible]
[illegible] latitudini zone 2a ibi luna
[illegible] talis circulus
[illegible] in latitudine [illegible]
[illegible] versus polum articum [illegible]
versus polum antarticum Et luna
[illegible] eclipticam in septentrione [illegible]
[illegible] per [illegible]
[illegible] autor ~~intelligit~~
[illegible] lineam lune per [illegible]
[illegible] lune [illegible]
talis circulus declinat [illegible]
[illegible] in duas partes [illegible]
que [illegible] talis [illegible]
circulus lune Unde dicit autor
~~[illegible]~~
~~[illegible]~~
[illegible] et [illegible]
de luna [illegible] est
per que [illegible] lune
Unde dicit autor [illegible]
[illegible] [illegible]
[illegible] est in [illegible] ecliptice
lune [illegible]
una declinat [illegible]
[illegible] alia [illegible]

est [illegible] autor [illegible]
[illegible] [illegible]
[illegible] [illegible]
lune [illegible] lune
ecliptice de [illegible] que est
latitudo in medio et [illegible]
[illegible] in [illegible]
[illegible] Unde dicit autor
[illegible] [illegible]
[illegible] per quam [illegible]
[illegible] appellatur
caput draconis [illegible]
[illegible] per quam [illegible] luna
[illegible] in [illegible]
dicitur cauda draconis [illegible]



Predicta figura sic debet
[illegible] in 30o [illegible]
[illegible] [illegible] est [illegible]
zona [illegible] equinoctialem
[illegible] polum articum et [illegible]
ex opposita parte [illegible]
[illegible] 30a [illegible]
[illegible] [illegible] 30a
[illegible]

maxime elevatur super equinoctialem versus polum articum punctum capricorni est ex alia parte tamen ubi zodiacus maxime deprimitur super equinoctialem versus polum antarcticum. Deinde alia signa equaliter dividuntur ab illis [illegible] ordinem signorum predictorum.

[illegible] autor [illegible] [illegible] zodiaci [illegible] amplius [illegible] et signis [illegible] in [illegible] zodiaci sunt signa [illegible] zodiaci sit [illegible] [illegible] est equinoctium [illegible] sol [illegible] [illegible] signis zodiaci [illegible] nota quod sol est in ariete [illegible] in libra [illegible] zodiaci [illegible] [illegible] ubi zodiacus [illegible] equinoctialem [illegible] est punctum cancri est ubi zodiacus [illegible] elevatur super equinoctialem versus polum articum [illegible] libra [illegible] parte arietis est ubi zodiacus [illegible] equinoctialem [illegible] [illegible] est capricornus ex alia parte cancri est ubi zodiacus [illegible] deprimitur super equinoctialem versus polum antarcticum [illegible] [illegible] deinde alia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] polus [illegible] est [illegible] [illegible] [illegible] polus articus [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] longitudo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] polo [illegible] [illegible] ordine [illegible] [illegible] [illegible] [illegible] [illegible] polo articus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ~~[illegible]~~

Unde nota quod sol est in ariete vel in libra tunc est equinoctium in universo mundo. Quia tunc sol est in equinoctio quod equinoctium est circa festum Gregorii vel Lamperti ut patet in hoc metro:

Lampart Gregorii nox est equata diei.

[illegible] autor [illegible] [illegible] ubi est sol quod est [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sunt [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] sol est in primo arietis [illegible] primo libre [illegible] est equinoctium in [illegible] [illegible] [illegible] Gregorii et Lamperti [illegible] [illegible] [illegible] [illegible] [illegible] talis [illegible] [illegible] Lamparti et Gregorii id est in die Gregorii [illegible] [illegible] nox est equata diei [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] equinoctium [illegible] [illegible] libra [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible: 26 lines of small, densely abbreviated Latin gloss text at the top of the left column]

Cum autem sol est in can-cro tunc est dies lon-gissimus quia sol perficit parallelum solsticii estivalem que dies est beati Viti. Cum vero sol fuerit in capricorno tunc est brevissima dies et tunc sol perficit solsticium yemale qui dies est circa festum Lucie. Et ista omnia patent in figura precedenti. Sed Vitus et Lucia dant duo sola.

[illegible: 14 lines of small, densely abbreviated Latin gloss text at the top of the right column]

Predictis igitur in pr[...] solis de motu [...] loci et [...] [...] scilicet [...] que omnia patent [...] [...] sub [...]. [...] dat [...] [...] sunt initia [...] [...] ad [...] [...] dat initia [...] in medio [...]

[...]bre / at / ser / nia /
sim / mb / lic / ci / lu / cat /
lac / [...] / vear / sunt
[...] / ta / et / vi / gar / ip / ci / [...] /
[...] / lu / cat / ti / la[...] / sit
Sunt autem versus [...]

Terminus sive valuerit aliquo die querere per primum dicere in operibus comperandis et in omnem per quam fidenc peram presidentem primam post in ascensus [illegible] at zor in [illegible]

[illegible]

[illegible] [Gregorius] [illegible] Sup[er] [illegible] Sup[er] [illegible]

[illegible]

[illegible]

Sic autem condicio [illegible] querens sive vita ipso [illegible] Sic et [illegible] in qua [illegible] Et una primo condicio est [illegible] articulus [illegible] vita [illegible] ordine [illegible] Et alios [illegible] eodem articulo Et quod [illegible] in tali articulo est [illegible] solis [illegible] uno [illegible]

[illegible]

[illegible]

Luna est velocissima planetarum [illegible] die [illegible] in 13 gradibus et 10 minutis [illegible]

[illegible]

Ut autem locus eius habe-
atur per tabulam conjunctionis
prime dantur versus sequentes
etatis. Ubi tu notandum quod
etas conjunctionis et quantum
sunt dies mediantes inter
unam conjunctionem et aliam.
Nota quod quelibet littera reputat
tot pro qua quota est in
ordine alphabeti. Pertracta
in alia questione [illegible]

Hic autor apparet [illegible] primo continuando [illegible] et [illegible] [illegible] [illegible] et [illegible] ut locum lune [illegible] sicut dictum est [illegible] [illegible] [illegible] etatis [illegible] habentis [illegible] conjunctionis [illegible] [illegible] etas [illegible] [illegible] [illegible] [illegible] [illegible] locum eius [illegible] Et etas conjunctionis non est aliud nisi dies mediantes inter duas conjunctiones [illegible] [illegible] quod autor [illegible] [illegible] [illegible] [illegible] locum lune [illegible] etas conjunctionis lune [illegible] [illegible] dies [illegible] etas [illegible] dies qui mediant inter unam conjunctionem et aliam [illegible] [illegible] [illegible] locum lune in aliquo die [illegible] [illegible] [illegible] conjunctionis et in illo die [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] patet [illegible]

Da. a. b. d. c. g. f. h. i. l. b. d.

c. g. k. ter sunt. V michel
in primis [illegible] est tenendum
littere prime [illegible] sunt [illegible]
etate conjunctionis lune
[illegible] [illegible] prime littere
[illegible] [illegible] [illegible]
[illegible] [illegible] duabus
etatibus quarum littere
v prima prime et secunde etati
[illegible] ultime [illegible].
Secunda [illegible] que
tertie quarte etati [illegible]
ultime autem tres littere scilicet
c g k tribus etatibus
[illegible] Nota quod [illegible]
[illegible] [illegible] alphabeti
debent poni [illegible] v que
semper in principio ponitur

Hic autor ponit versus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] etatis lune [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] v a b [illegible] [illegible] [illegible] [illegible] [illegible] duabus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] et quelibet [illegible] [illegible] [illegible] [illegible] alphabeti [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] etatibus [illegible] [illegible] [illegible] tale [illegible]

alphabeti sunt ... a ... [illegible]

... oportet ... [illegible]

[illegible]

Item ... [illegible]

[illegible]

Sequuntur versus per quos potest inveniri in quo signo sit luna quolibet die.

13 26 9 22 6 19 2 17
Cha / ni / & / se / fus / sa / sin / pu /

28 12 27 8 21 8 18
ti / ge / lo / ga / go / du / in /

1 2 10 24 1 20 3
au / ca / bi / ia / te / be / ta / ba /

16 24 13 26 9 22 7
le / po / na / re / & / re / ev /

Signa hic sunt. Ponimus autem quod prima syllaba versus ... [quae] sunt et quod littera versus ... syllaba sit signum ... qui ... sit ... signum ... in ... computandi ... signis ... [pars] lunae.

[illegible]

[illegible]

[illegible]

Cum igitur lune post ... quam pre volueris summus est dicta dierum quartodecimus ... secundum pelis ... in medio ... pelis in quarta ... ad pres ... Cum autem appellant dierum quartodecimus lune ad pas ... secundum quale et notam articulum ... ita ad eundem articulum unde duo 3a ... a prebet ... quartodecimus ... dierum ... Quo facto ita ... de ... ...

v a b re vpp ad eundem
articulum et licet locum ut
predictum est sed veniamus
per illam literam per duabus
clausibus ad tribus et
hac 2m ordinem alphabeti
Si in lit. differunt in
ipse absimiles et licet super
articulum eidem sit post
hunc audit. Quidam fuit
cum lapsus quidam sed
qualiter clausis primas var
sillabam dictas in plus quam
dum sed ma vi re. Et sillaba
sillaba sup articulum eidem
li. quando sillabe audiunt
quidam hunc quidam dicunt quas
quidam computa in unum cum
quidam sillabis in quatuor
aut plures sunt post
completorum pure perfectum
sillabis in quatuor tantum
et post hunc mensura
in illa post. Si autem
quidam convenerunt 3o
sillabis ad de in post
Et si tres post [illegible] fue
runt plena quod si tres
sub [illegible] 12. Et sunt usual
tunc audit post per
fecta hunc ad illum

dicens cum post [illegible]
[illegible]. Et ut illud [illegible]
quos una per digitos [illegible]
usta [illegible] aut plures
[illegible] de ordine [illegible]
3o. sed [illegible]
et [illegible] ad [illegible]
et quod post locum in [illegible]
[illegible] per quod post [illegible] licet
[illegible] predictos quidam. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
quod [illegible] dictum est 2o [illegible]
[illegible]
ad [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] est [illegible]
[illegible]
[illegible]
ad [illegible]
[illegible] in qua sillaba
[illegible]
[illegible]
[illegible] illud [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] illud [illegible]
[illegible]
[illegible]
[illegible] 27
[illegible] sillabe [illegible]
[illegible] quidam [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Iuxta quod novus quod locus
lune in omnibus circulis
valet pro hora precedenti
quam diximus. Vnde si
quando esset in vespere
locus lune pro omnibus centris
esset in vespere. Si autem
ad aliam horam post vo-
lueris videre ubi sit hora
ad quam queris si sit ante
horam quam diximus vel
post. Si autem fuerit semper
per duabus horis post hac
[illegible]. Si post fuerit
semper per duabus horis
ad [illegible] et sic
invenies partes loci
lune ad omnes horas die-
rum et noctis [illegible]

Probinus semper hore
[illegible] Si fuerit
autem [illegible] [illegible]
post [illegible] ad [illegible]

Sit autem invenire partem
[illegible] Si locus lune
per dictum [illegible]
ad horam in
qua sunt quando [illegible]
[illegible] hora [illegible]
[illegible] in qua sunt
[illegible] quando

post locum lune [illegible]
[illegible] [illegible]
ut si [illegible] [illegible] hora
fuisset quando [illegible]
[illegible] hora [illegible] ad quam
[illegible] locum lune [illegible]
[illegible] Si
[illegible] ad aliam horam [illegible]
[illegible]
[illegible] locum
lune [illegible] [illegible]
[illegible] ad [illegible]
[illegible]
[illegible]
horis [illegible]
[illegible] Si [illegible]
ad [illegible]
[illegible] Si [illegible]
[illegible] fuisset hora
[illegible] locum
lune ad [illegible]
in hora [illegible]
ad [illegible] ad [illegible]
[illegible] Si [illegible]
[illegible] in hora [illegible]
fuit [illegible] duas [illegible]
[illegible]
[illegible] et sic [illegible] locum lune
post ad [illegible] horam [illegible]
[illegible] et [illegible]
[illegible]
[illegible] locus [illegible]
in duabus horis [illegible]
[illegible]
[illegible] locum lune [illegible]
in qua sunt [illegible]
[illegible] locum per duas
horas per dictam horam
[illegible] ad horam
[illegible]
[illegible]
[illegible] Si [illegible] duas horas
[illegible]
[illegible]
[illegible]
[illegible] locum lune [illegible]
[illegible]
[illegible]
locum lune [illegible] ad [illegible]
[illegible] sunt [illegible]

Hora

[illegible]

Expliciunt dicta libri
Cuometricalis edita
et conscripta per magistrum
Nicolaum de Gmbo
stow Sub anno domini
m° cccc° vicesimo iii°
Et sunt finita feria sexta
pridie Sancti Allexii etc.

[illegible]

astronomie que est pars que [illegible]
solis motus et aliorum planetarum
Sed astrologia est de effectibus
superiorum quod astronomia
est pars mathematice et est pars
mathematice [illegible]
[illegible]
[illegible]

[O]mnia tamen inferiora
a mobilibus
corporibus superioribus
gubernantur

Quare de ipsorum motuum
inventione pariter et con-
tinuatione non tractavit. Sed ca-
lculum solis quemadmodum
et lune. Ex quibus tota divi-
na officia in ecclesia pag-
num [illegible] sequentur [illegible]
[illegible] dividi [illegible]
[illegible] computum [illegible]
revelare [illegible]
[illegible]
Sed tamen aliorum [illegible]
[illegible] diversa in
[illegible] ordine [illegible]
[illegible]
[illegible] computum
[illegible] libros in quibus
[illegible]
[illegible] solis et lune [illegible]
[illegible] videlicet quod sit
cyclus [illegible] et lunaris
Et qui [illegible]
quod sit intervallum [illegible]
In [illegible] libri [illegible]
[illegible] simul [illegible]
[illegible] oppositiones
et [illegible]
[illegible] ad [illegible] motum [illegible]

patescit

Iste liber totalis cuius subiectum
est corpus ... divisione
dividitur in duos libros par-
tiales. Primus incipit ... [illegible]
et motibus ... [illegible]
quas tendunt ... [illegible]
patent ad ... [illegible]
... [illegible]

[illegible]

Sumt

[C]um eius sol sit
lumine et candel-
la celi gubernat-
or mundi et fac-
tor temporum quam plantarum
nobilissimus Quare de
sole est pertractandum de
cyclo solari dicendum
qui est spacium 28 annorum
eo quod in tempore tanto [illegible]
festa per quaslibet ferias [illegible]
at et bissextus quamlibet
feriam contingit [illegible]
quod [illegible]
[illegible] ferialibus [illegible]
cyclus [illegible]
aliquis annus cycli solaris
[illegible] et [illegible]
[illegible] in [illegible]
reddit [illegible]
solaris [illegible]
[illegible]
cycli solaris [illegible] patet
[illegible]
Nonaginta unum tollas mil-
le quam tricenta [illegible]
[illegible] cyclo [illegible]

Sed quam viginti octo superabit
sit numerus Tolle quater
septem et tunc quod accidit ult[illegible]

[illegible]

Bina

[illegible] factor [illegible] sue incepit [illegible] quam [illegible] sub forma [illegible] [illegible]

[illegible]

[illegible] quatuor [illegible]

[illegible]

[illegible] Cyclus [illegible]

pacto dicta et reddita [illegible] solaris [illegible] aliquis [illegible] cycli solaris [illegible] que [illegible] cycli solaris [illegible] qui [illegible] duo [illegible]

1433 [illegible]

1391 [illegible] et quod [illegible] erit cyclus solaris [illegible] 28 [illegible] 28 [illegible] cyclus solaris [illegible] cycli solaris [illegible] aliquit [illegible] solaris [illegible]

Habito cyclo solari [illegible] [illegible] que [illegible] solaris [illegible] a . b . c . d . e . f . g [illegible] totus [illegible] quadam [illegible] [illegible] quam [illegible]

[illegible] alpha[illegible] dominicalis est que omni anno variatur. Et vult dicere [illegible] vna dies est [illegible] plura que designat [illegible] kalendarii [illegible] Et in prima kalendarii [illegible] ad [illegible] variationem [illegible] dominicalis [illegible]

[illegible]

[illegible] in [illegible] dies [illegible] Et [illegible] dominicalis [illegible] dies est vna dies [illegible] quinquaginta [illegible] septimanas [illegible] kalendarii [illegible] variatur [illegible] dominicalis [illegible] 365 dies [illegible]

[illegible] dominicalis [illegible] variatur et [illegible] dies [illegible] Communis est ille qui continet 365 dies [illegible] Et [illegible] in quibus [illegible] dominicalis [illegible] Bissextilis autem dicitur est ille qui continet 366 dies [illegible] dies [illegible] plura que [illegible] dies [illegible]

continet. Et ideo semper in 4to anno una dies interponitur sexto kalendas marcii et in die sequenti celebratur festum Mathie etc.

[illegible] interponitur marcii [illegible] sexto kalendas [illegible]

Bisextus sexto martis tene kalendas [illegible] Posterior die [illegible] celebratur festum Mathie [illegible]

Unde fit [illegible] variat ibidem. Est enim dies interpositus extra [illegible] lune [illegible] secundarius variatur etc.

Hic [illegible] quare variacio [illegible] in anno bisextili in quo [illegible] [illegible] 4or [illegible] 24 in [illegible] [illegible] [illegible] dictum est. Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Et in [illegible] [illegible] [illegible] [illegible] Communis est qui continet 364 dies et 6 horas [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] variatur [illegible] bisextilis annus est qui continet 366 dies [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] quolibet anno [illegible] [illegible] [illegible] dies sex horas [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 18 horas [illegible] [illegible] [illegible] 6 horas [illegible] [illegible] [illegible] 24 horas [illegible] 24 horas continet diem

dierum naturalem et ideo semper in 4to anno [illegible] una dies sexto kalendas marcii [illegible] [illegible] [illegible] Et [illegible] in anno bisextili [illegible] [illegible] dies [illegible] [illegible] in februario [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 24ta dies [illegible] februarii et [illegible] dies est sexto kalendas marcii [illegible] [illegible] [illegible] [illegible] [illegible] 28 Et [illegible] bisextilis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] celebratur festum Mathie [illegible] bisextilis [illegible] sexto [illegible] [illegible] [illegible] sexto kalendas marcii [illegible] 27 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] festum celebraretur [illegible] bisextili [illegible] posset celebrari [illegible] [illegible] [illegible] Mathie [illegible]

[illegible] cum hec dies non [illegible] [illegible] [illegible] [illegible] post [illegible] viginti octo dies festum Mathie [illegible] [illegible] [illegible] [illegible] festum Johannis baptiste [illegible] [illegible] festum [illegible] magna [illegible] in [illegible] [illegible] [illegible] 12 [illegible] predictis festis [illegible] festum Mathie [illegible] in medio [illegible] [illegible] 11 dies et 12 horas

Et cum per [illegible] [illegible] [illegible]
[illegible] [illegible] duos [illegible] addit
[illegible] annis [illegible] [illegible]
ad [illegible] solis [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] est [illegible]
[illegible] et in [illegible]
[illegible] [illegible] [illegible] aliud
[illegible] [illegible] [illegible] [illegible]
[illegible] esset [illegible] [illegible] solis
[illegible] [illegible] [illegible]
[illegible] [illegible] duos [illegible]
[illegible] [illegible] 28 annos
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] [illegible] [illegible] 128 [illegible]
[illegible] [illegible] [illegible] 47 annis
[illegible] [illegible] [illegible]
in [illegible] quadrante [illegible]
182 dies quot [illegible]
et in [illegible] quadrante [illegible]
[illegible] 28 [illegible] [illegible]
[illegible] [illegible] annis
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] annis [illegible]
1 0 7 [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
6 8 6 0 [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in anno
[illegible] [illegible] 28 1 [illegible]
[illegible] [illegible] [illegible] 24
[illegible] in anno [illegible] [illegible]
[illegible] 11 [illegible] 64 [illegible]
[illegible] in [illegible] 1 [illegible]
[illegible] [illegible] 120 [illegible]
[illegible] [illegible] [illegible]
[illegible] 12 [illegible] [illegible]
[illegible] annis [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] in anno

quadrante [illegible] 6 [illegible]
[illegible] [illegible] [illegible] in 120
annis sunt 24 hore [illegible]
[illegible] 120 [illegible] [illegible]
in anno quadrante 24 que sunt
hore [illegible] quibus annus
[illegible] [illegible] et [illegible]
in 120 annis [illegible]
[illegible] 120 [illegible] [illegible]
120 per 12 [illegible] 1440
que [illegible] [illegible]
[illegible] 60 in anno
[illegible] 24 [illegible] que sunt
[illegible] [illegible] [illegible] duos
[illegible] addit [illegible] [illegible]
[illegible] [illegible] [illegible] ad
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
in [illegible] [illegible] [illegible] [illegible]
et aliorum [illegible] patet
per hos versus

[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] per hos [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] una [illegible]
cycli solaris pro [illegible]
[illegible] [illegible] [illegible]
in primo [illegible] in [illegible]
et [illegible] in [illegible] [illegible]
[illegible] [illegible] cycli solaris
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible]
[illegible] [illegible] una [illegible]

[illegible] ... quod est ...

[illegible] in quolibet [illegible]

lineam [illegible] Et [illegible]

[illegible] cadit linea diametri

[illegible] linea diametri

[illegible] linee. Et [illegible]

diametri [illegible] linee sunt

[illegible] ut [illegible]

[illegible] Et [illegible]

[illegible] Et linee [illegible]

[illegible] diametri [illegible]

diametrum [illegible]

[illegible]

cadit [illegible] diametri [illegible]

[illegible] diametri [illegible]

linea diametri [illegible] Et

[illegible] Et [illegible]

[illegible]

que diametri [illegible] ut

ad [illegible]

Et [illegible] diametri [illegible]

[illegible] linea diametri

[illegible] in diametri [illegible]

Et illa [illegible] linea [illegible]

[illegible] Et [illegible]

[illegible]

linea [illegible]

[illegible]

[illegible]

Si non est [illegible]

Et [illegible]

Si [illegible]

[illegible] quod [illegible] diametri

et [illegible]

[illegible]

[illegible] in [illegible]

[illegible] quod [illegible]

[illegible]

[illegible] diametri [illegible]

[illegible] Et [illegible]

[illegible]

[illegible] et [illegible]

[illegible] quod in [illegible]

[illegible] Et [illegible]

[illegible]

[illegible] diametri [illegible]

[illegible] quia [illegible]

a b c d e f [illegible]

et [illegible]

[illegible]

[illegible]

[illegible]

[illegible] Et [illegible]

linea diametri [illegible]

[illegible] diametri [illegible]

[illegible] cadit [illegible]

[illegible] linea diametri [illegible]

[illegible]

[illegible]

[illegible] Et [illegible]

[illegible] Si [illegible]

[illegible]

[illegible]

[illegible]

et duo cycli lunaris [illegible]
[illegible] per hos versus [illegible]

Ab annis tolle quingentos (?)
quadringintaque mille
[illegible] superat cyclum lune
[illegible]

[illegible]

altera (?)

[illegible] et peragitur in kalendario. Et in 4to anno ubi incipit in [illegible] in mense [illegible] populi quinquaginta [illegible] usque ad 14 annos. Cyclos decemnovennalis [illegible] eclipsis in [illegible] in [illegible] in illis diebus in quibus inveniuntur in 1o anno [illegible] et in 2o anno [illegible] 14 annos [illegible] in [illegible] sicut [illegible] in 20 anno [illegible]. Et ordinavit [illegible] qui [illegible] in [illegible] 14 annis [illegible] cyclo lunari [illegible] Et [illegible] cyclo lunari [illegible] [illegible] kalendarii [illegible] et [illegible] in kalendario [illegible] plenilunium [illegible] lunarem [illegible] 3a [illegible] cyclo lunari [illegible] et nos [illegible] 14 annos [illegible] erit cyclus lunaris [illegible] 19 [illegible] 14 [illegible] 19 annos [illegible] erit cyclus lunaris [illegible] 1433 [illegible] cyclo lunari [illegible] 14. Sed secundo cyclo lunari [illegible] kalendarium [illegible] [illegible] ad [illegible] [illegible] et nos [illegible] celebramus pascha. Et [illegible] Judeis sicut [illegible] in [illegible]

die mensis debuerint celebrare pascha. Sed quia per [illegible] [illegible] dictum est [illegible] non venit plenilunium [illegible] ad implendum ergo isto tempore quo nos [illegible] celebramus pascha apparebat plenilunium. Et quia eclipsis solis [illegible] fuit plenilunium tempore quo et nos apparebat plenilunium [illegible] ad [illegible] nos celebramus pascha tempore apparebat plenilunium. Ut eclipsis solis non fuit tempore passionis [illegible] Judei dicunt eclipsis solis tempore passionis Christi fuisse [illegible]. Sed quia [illegible] anno [illegible] 2um annum cycli lunaris [illegible] [illegible] ita quod in [illegible] anno sunt plenilunia et [illegible] quater [illegible] [illegible] [illegible]

Eclipsis alterna festinet
Lunaris extra Clerici
facile decipitur gaudens

tercie articulum dygonii
gamma contrahit ad alter
Dotto barbatum ergo met
Si cum
considero ultimum probo
vpus int[er]vallo sic valens
sic una duos cycli litteras
precedent digittari incipiendo
a primo membro undecim et
in quo membro pausatur cyclo
linealis aliud intervallo
sic dicitur ad dictum una
unus precedens sed eclipsis
alterum loco membrum nobo
unum decem et de tribus
membris cycli linea audit
tale ebdomada intervalle
Hec ad medium fallit quod p
elevate vallens undecim
locum doutralem aut quod
sit et ad parem lineam demum
rupte proportion linearum. Sic
tunc linea donulis aut
perdit liquam duantes in
ordine litteram donulum
tunc sunt ebdomadis est
ad ingredi. Sed si linea dun
finit aut vero linea dum
est pertinet unum tunc ulla

est ad ingredi et in duo
biprobli hoc debet sem per
pendens lineam et nos spiramus
Ebdomas si queritur tenet
ultima hec versio
[illegible]

[illegible]

... 26.17.34.23.

.12.31.20.39.28.[illegible] 36.27.14.
.33.22.11.30.19.38. [illegible]

[illegible]

[illegible] ... alios [illegible]
[illegible] ... et ... [illegible]
in quibus ... [illegible]
... [illegible]
ad [illegible]
[illegible]
... unum ... [illegible]
[illegible]
litteram dominicalem ... [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
littera dominicalis [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
Et littera dominicalis [illegible]
[illegible]
[illegible]
[illegible]
[illegible] ... 1433 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
littera dominicalis ... 1987
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

Concurrentes autem [illegible]
superflui vel ebdomadis
sunt dierum ultra [illegible]
dierum proximo praeteriti anni
[illegible] includendi. Nota
aqua dominica est septimanae
sunt [illegible]
[illegible] etc.

Annus bissextilis tunc duas
habet ... quarum [illegible]
[illegible] littera dominicalis
[illegible]
dominicae [illegible]
sunt [illegible]
littera dominicalis [illegible] duos
[illegible] Si [illegible] duo [illegible]
[illegible] duo [illegible]
sunt [illegible] littera dominicalis
[illegible]
[illegible] littera dominicalis [illegible]
dominica [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]

De festis mobilibus nunc videndum est. Est autem festum mobile quod non certo anno [illegible] et eodem die celebratur nullo certo loco in kalendario possit assignari. Et illorum sunt septem. Circa [illegible] septuagesima a septima [illegible] quinta decima [illegible] septuagesima dicitur [illegible] quos recolit [illegible] [illegible] septuagesima [illegible] quibus filii israel captivi fuerunt [illegible] [illegible] festi [illegible] [illegible] ut [illegible] et [illegible] historie [illegible] historiarum filiorum israel [illegible] et fuit [illegible] quod [illegible] Et [illegible] pasce [illegible] fuerunt [illegible] Et [illegible] fuerunt [illegible] festo [illegible] [illegible] quo [illegible]

de custodia qua filii Israel omnes
fuerant recepti a manibus
pharaonis. Secundum festum
dicitur quadragesima a quadra
id est quatuor et decem dicta
eo quod quadraginta dies continet
quos recolit. Certum quod
moyses quadraginta dies
ieiunavit et legem dei
suscepit. Et christus postea quadragin
ta dies ieiunavit et
dyaboli vicit temptacio-
nes. Quapropter nos eciam
quadraginta diebus ieiu
namus dolendo pro nostris
peccatis. Tercium festum incipitur
capitur a dominica que dicitur
[illegible]. Et extendit
se usque ad festum pasce.
Et vocatur festum nostre legis pas
ca. Unde pasca grece transva-
let sonat. phase ebraice
et transitus latine. Et dicitur
quia filii Israel transierunt sic-
cis pedibus per mare ru-
brum et liberati sunt a
pharaone. Et nos transivimus
per mala vicia nostra fide
domini passionem et quando
morimur et de morte re-
surgendo gaudium [illegible]

mundo. Sicut et nos transire debemus
ad patriam de viciis ad virtutes
et de hac vita ad celestem.
Quartum festum maiores dicitur
rogacionum in qua papa apo-
git [illegible] quod [illegible]
ad [illegible] festum apo
[illegible]. Et dicitur rogacio quia
isto tempore oramus continue
et processionibus rogamus
dominum ut conservet et
defendat a morte [illegible]
[illegible] et ut conservet fructus.
Dicitur rogacionum quia
[illegible] [illegible]
[illegible] quia [illegible]
[illegible] festum
[illegible]. Quintum festum dicitur
pentecostes a penta
id est quinque et decem quod continet
quinquaginta dies. Sed eciam
quinquaginta dies inter festum
pasce et pentecostes [illegible]
[illegible]. Et illud
festum recolit [illegible] qui in
monte [illegible] lex
moysi data est et [illegible]
[illegible] apostolis. Sextum
festum [illegible] est festum corporis
christi [illegible] [illegible]
infra octavam pentecostes.
[illegible] festum [illegible]

qui omni anno mouentur [illegible]
que septimanam antecedunt [illegible]
[illegible] Sic est [illegible]
in quo agitur de festis mobilibus
[illegible] est [illegible]
mobilium [illegible]
[illegible] et [illegible]
[illegible] Item de
[illegible] ad [illegible]
est de festis mobilibus [illegible] Item [illegible]
[illegible] Item
[illegible] festum [illegible] et [illegible]
[illegible] in [illegible]
[illegible] quod [illegible]
[illegible] celebratur [illegible]
[illegible] etiam [illegible]
[illegible] ascensionis [illegible]
[illegible] et est festum Item [illegible]
[illegible]
et de aliis [illegible] est ad [illegible]
Item festum mobile est quod [illegible]
[illegible] et [illegible]
[illegible]
[illegible] ascensionem Item [illegible]
[illegible] est [illegible] festum
[illegible]
celebratur [illegible] una [illegible]
[illegible]
[illegible] festum [illegible]
[illegible] quod [illegible]
Item [illegible] est [illegible] festa [illegible]
celebrantur [illegible]
[illegible]
[illegible]
[illegible] cum [illegible]
[illegible] sunt [illegible]
[illegible] sunt [illegible]
[illegible]
[illegible] et [illegible]
[illegible] Item [illegible]
[illegible] festa [illegible]
[illegible] nota
[illegible] instituta
[illegible] Item [illegible]
[illegible]
[illegible] qua
[illegible] fuerit [illegible]
[illegible] Item [illegible] alia

[illegible] letanie [illegible] letanie
Item letania [illegible] fit ergo
[illegible] in festo marci
que dicitur letania maior
et que instituta est a magno
videlicet a papa gregorio papa
[illegible] Item [illegible]
minor [illegible] in qua
instituta est [illegible]
[illegible] que [illegible]
[illegible] instituta est Item [illegible]
et letania [illegible]
ante festum ascensionis [illegible]
que dicitur letania [illegible]
[illegible] que instituta est
a [illegible] Item [illegible]
que [illegible] festum
festum [illegible] festum [illegible]
[illegible]
[illegible] est [illegible]
festum [illegible] sunt instituta
[illegible] a papa [illegible]
[illegible] institutum est Item [illegible]
[illegible]
[illegible] festum [illegible]
Item ad videndum ista festa
videlicet [illegible] sunt ebdo-
made intervalli Si ergo
habes quinque septimanas
inter vallo tunc [illegible] tres
ebdomadas [illegible]
[illegible] ebdomade sunt
[illegible] et habebis septua-
gesimam Si vero sunt [illegible]
inter valla tunc una quatuor
Si septem tunc una quinque
Si octo tunc una septua-
[illegible] tunc una septem Si
vero decem sunt ebdomade intervalli

tunc una octo ebdomadis a
domini producta et quibus sep-
tuagesimam colimus etc.

Sumite tibi tres dicunt per
autem quatuor sic sumunt

Post septem quibus post octo per
quod relinque Adde novem

per una sub octo dic tu de
anno ulterius una a prima una
nona tres ebdomadas et
quibus quadragesima post hoc una
sit ebdomadas et quibus sic
post pasce Sunt post quinque ro-
gacionum domine post quatuor
decim dies quibus festum pe-
tecostes Et tunc post sic de
et ambobus festis includitur
quibus festum corporis christi

A septuagesima tres una
sit tibi quadragesima Sed post
pasca post quinque sit tibi roga

Post hos septem duos tunc
festum spiritus alme Et post duo
[illegible] celebrant corporis festum
Adventus domini qui videtur esse
festum mobile quia dicitur
[illegible] dominicale sic celebratur

inceptio adventus post festum beati
qui est ante festum sancte Kate-
rine et si tale festum in
dominica acciderit tunc adventus
celebratur dominica sequenti etc.

Adventus domini sequitur
solempnia [illegible]

[illegible] festorum mobilium [illegible]
[illegible] [illegible]
[illegible] mobilium
[illegible]
[illegible]
[illegible] per intervallo
[illegible]
Septuagesima est septem [illegible]
[illegible] dominica [illegible]
[illegible]
[illegible] ebdomada [illegible]
[illegible]
[illegible] festa mobilia est [illegible]
[illegible] valeat [illegible] festa
mobilia [illegible] intervallo
[illegible] dominicam [illegible]
[illegible] ebdomada [illegible]
[illegible]
[illegible] festum nativitatis [illegible]
[illegible]
dominica [illegible] est festum nativitatis [illegible]
[illegible]
[illegible] per intervallo [illegible]
[illegible] ebdomadas adiungere [illegible]
[illegible] ebdomada [illegible]
et quibus septuagesima [illegible]
[illegible] intervallo tunc [illegible]
dominica [illegible] quatuor ebdomadas
[illegible] quibus septuagesima
[illegible]
[illegible]
[illegible] quadragesima
[illegible] una [illegible] septimana [illegible]
quibus quadragesima [illegible]

[illegible]

... festum ... [illegible]

... Et quia ... [illegible]

... festum ... [illegible]

... est ... [illegible]

... festum ... et ... [illegible]

... [illegible]

O[...] temporibus duorum [...] dicendum est. Est autem [...] triplex [...]

Solaris et lunaris [...]

solaris est [...]

sol [...] [illegible]

Et quarto [...] sicut in aliis plu-
[...] ad [...] [illegible]
[...] ponitur [...] 30 [...]

Est autem [...] [illegible]
[...] Librum
[...] architectus [...] super
amphora [...]
[...] duo [...]
[...] libra fit quater
[...] i. [...]
duo [...] sol in trat
[...] quod est [...] festum
[...] est [...]
[...] Et sic sol in-
trat libram quod est [...]
festum [...] et [...]
est [...] Est [...]
[...] fit
solstitium i. [...]
[...] sol
intrat [...] est [...]
festum [...] est solstitium
[...] et [...]
Et sic sol intrat [...]
quod est [...] festum [...]
est solstitium [...]
[...] [illegible]
est [...] Vitus
[...] solstitium [...]
[...] solstitium fit [...]

capam͂ Sed noctes equat
Aues libra dulces et
ouos et scorpio semp
tria quarum prima duo constituunt
nazaneo thaurus et gemi
ni cancer leo virgo statiz
libra scorpio sagittarius
autumpnum Capricornus
aquarius et pisces yemem
faciunt quorum primum duo
solis inicia habent
in quo capitulo [illegible]
Ver petro dat estas cle
ment presul hanc dabit
urbanus autumpnum sim
foranus festum clementis
capit est yemis [illegible]
in hys quatuor [illegible]
duo quatuor [illegible] que de
[illegible] ut patent
[illegible]
Vult crux lucia cineres
carismata dya ut sit
mangaria [illegible]
[illegible] feria [illegible]
in quatuor feriam [illegible]
[illegible] est [illegible]
quarta feria [illegible]

[illegible]

[illegible]

Mensis autem lunaris est spa-
cium temporis in quo luna rece-
dit a sole iterum ad solem
revertens i. tempus unius
coniunctionis ad aliam et
continet 29 dies 12 horas
44 minuta quarum unaquaque
quarum in anno solari sunt
12 quarum 13 [illegible] annus
lunaris est duplex scilicet communis et
embolismalis. Annus communis
est spacium 12 lunationum
in quo soli minus [illegible]
[illegible] continens
354 dies. Sed annus
lunaris embolismalis
est spacium temporis 13 luna-
tionum continens 384 dies
Unde patet quod excedit annum
lunarem communem in 30 diebus

Et dicitur embolismus ab embo-
lis quod est excrescentia eo quod
causat aliquam excrescentiam an-
nalis super annum lunarem
annus patet quod annus solaris
excedit annum lunarem quem
in undecim diebus et illi
undecim dies causant
tredecim lunationes que
vocantur embolismus et in
quocumque anno reperiuntur
sed que quidem tres pa-
[illegible] vocantur embolis-
mus [illegible]
Alii tamen imponunt [illegible] in
fine anni post decimum
Quando autem sit annus em-
bolismalis patet per versus
Bis sex ter [illegible]
nobilis [illegible]
In quo [illegible]
[illegible]
embolismalis in cyclo lunari
[illegible]
[illegible] embolismi
[illegible]
[illegible]
[illegible]
in toto anno cycli lunaris
[illegible] embolismi
[illegible] cyclo
lunari [illegible]

13.16.18. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] lunares
lunaris [illegible]
[illegible]
cycli lunaris [illegible] embolismi
[illegible]
[illegible]
[illegible]
[illegible]
29 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 29 [illegible]
[illegible]
[illegible] 348 [illegible]
[illegible]
144 [illegible]
[illegible]
144 [illegible] 24 [illegible]
[illegible]
[illegible]
[illegible] 348 [illegible]
354 [illegible]
[illegible]
[illegible] embolismalis
[illegible]
[illegible]
[illegible] 384 [illegible]
[illegible] embolismi
[illegible]
30 [illegible]

in embolismi ... prima
... que est
... alique
... pariunt ... tre
... embolismi ...
... legitur ...
ut 8 ut 10 13 16 ut 18 ...
... embolismi
... 13 ... lunationes
Menses vero vsuales est preparand
nostris kalendariis ... in ...
... et abantiquis ... au-
tem ... quorum ... sunt
Mensis vsuali incohante
in Januario ... nouem
patent per ... numer ...
Ja fe mar ap ma iun
iul aug sep oct no dec
... quorum aliquis continet
que 30 dies ut Junius
Junius aprilis september ...
november ... 31 ut
Januarius marcius maius
Julius augustus october
december ... februarius ...
... ... 28 dies
... ut ... ...
29 ... ...
Junius aprilis september
... november ... dies
... ...

Sed tenet ... ... legunt
... ... tenet ...
... lux ... dies
... ...
et in quarta feria ... ...
... ...

Sep bri marg ap ... ...
iun iul ... ...
... ... circa
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ... palend ... .

[illegible]

Singulis predictorum
mensium tres sunt
dies principales
diversis nominibus
autem alii dies mensium de-
currunt scilicet kalendas nonas
et idus prima cum dies mensis

eiusdem dicitur kalende ipse eius
mensis. Alii autem dies in anteriori
mense qui dicuntur kalende ca-
piunt ... decurrunt in
mense precedente ut kalende
in Januario decurrunt ante
Januario. Et dicuntur kalende
februarii ut patet per predictum in
in ... precedunt nonae
post ydus qui nonarum et ...
decurrunt ante ... in quo
ponitur. Ita quod ad primos illorum
finito incipit reliquorum numerus
... in hiis ... dies
et mensis continet 8 ydus ut
patet per ... versus

Octo facit ydus mensis
equaliter omnis
Et ad nonas et kalendas
quibus mensis habeat patet
per hos versus subscriptos

Tractatus quidem refert sedule
refugiunt Sanctis ...
tendunt studere refutens
sedulum tendere | Iugibus
... vocibus
... decurrens ... mensibus
... describens ... sic ...
... ...
... ...

Si quis scire voluerit an duo [illegible]

[illegible]

Nunc autem in quolibet mense

vsuale sunt duo dies egipciaci
a quorum observancia nobis pro-
hibet sanctus Augustinus sic dicti
egipciaci inceptum ne fuerit
sequentur hij in kalendarijs
propter mediam plagam quas
deus fecit intra egipti in
[illegible] ipsis egipcijs propter
delicta ut eos fugiamus precaui
ne [illegible] plus contingat qui
patent per hos versus

Augustus decios numine
alecto clangor et lingunt
dies alios colunt calus
exorit gallus In quibus plures
punit per dictiones [illegible]
plures vnitalibus [illegible]
[illegible] prima [illegible] [illegible] syllaba quo-
rum fuit littera alphabeti
ostendit primus dies egipciacus
mensis [illegible] dies [illegible]
eripit [illegible] et prima
[illegible] secunde syllabe eiusdem dictionis
ostendit secundum egipciacum [illegible]
dies a fine [illegible] computando
[illegible] fuit littera alphabeti
Et hij ut computat plura
Duo [illegible] quos [illegible]
[illegible] patent per
hos versus [illegible]

Julius [illegible] indicit

[illegible] Septembris
gaudet [illegible] fuit [illegible]
[illegible] Indictio est spacium
quindecim annorum
ad [illegible] abstinendis [illegible]
[illegible] [illegible] institutum
[illegible] Romani dominarent
omnibus nacionibus fecerunt
[illegible] tributarias per
[illegible] quod in fine primi
quinquennij aurum in fine
secundi quinquennij argentum
et in fine tercij ferrum p-
[illegible] et [illegible]
[illegible] ut quamvis
[illegible] esset non habe-
[illegible] indictionis [illegible]
notatum in libris [illegible]
[illegible] [illegible] la-
[illegible] et [illegible] [illegible] [illegible]
[illegible] [illegible] inchoata
ad indictionis [illegible]
patet per hos versus

Romagina tollitur duo
mille et triginta vltra
quinque per [illegible] [illegible]
[illegible] [illegible] [illegible]
Quinque per eradit quinque
tollis relinquitur [illegible]
vbi [illegible] et per quinque [illegible]

Li et licet antiqui in
diversis in novem in
... alii [illegible]
in ... ad diversos
... in ... et ita
quod ... per libros dicta
sufficiant ... quare ...
[illegible]

... et ... qui ...
... qui ...
[illegible]

q est inscriptio [illegible] ab
[illegible] [illegible] ¶ Et [illegible]
[illegible] [illegible] ut in
[illegible] est [illegible] ¶ Et [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] quibus est [illegible] [illegible] [illegible]
[illegible] 1392 [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] anni [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] plures dierum quam 17 [illegible]
17 [illegible] [illegible] [illegible] [illegible]
[illegible] erit in [illegible] [illegible]
[illegible] [illegible] 1433 ¶ [illegible]
[illegible] [illegible] [illegible] solare
[illegible] [illegible] [illegible]
[illegible] ¶ [illegible] [illegible] [illegible]
¶ [illegible] [illegible] [illegible] in
[illegible] ¶ [illegible] [illegible] in [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] [illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] ¶ [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

Capitulum 29

Ammitagz et
[illegible] sol
et lune [illegible]
inferiori libro
[illegible] [illegible]
ta ¶ Nunc vero
in [illegible] [illegible] [illegible]
et oppositionibus [illegible]
[illegible] [illegible] est
[illegible] ¶ [illegible] [illegible]
[illegible] est [illegible] [illegible]
[illegible] [illegible] sol et luna
[illegible] [illegible] in [illegible] distantia

[illegible] [illegible]
in [illegible] [illegible] [illegible]
[illegible] ¶ [illegible] [illegible]
[illegible] [illegible] [illegible] in 1364 [illegible]
[illegible] 6 [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] luna
vero in 29 [illegible] [illegible]
44 [illegible] [illegible] [illegible]
¶ Et [illegible] [illegible] [illegible] [illegible]
maiori [illegible] minori
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] lune anni [illegible]
[illegible] [illegible] [illegible] ¶ Radix
at lune anni est [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
anni [illegible] [illegible]
[illegible] [illegible] [illegible] ¶ Est
at [illegible] [illegible] anni 1407
et [illegible] [illegible] in [illegible]
[illegible] 4 [illegible] [illegible]
[illegible] [illegible] 22 [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] 4
¶ [illegible] [illegible] [illegible] [illegible] 4
[illegible] [illegible] [illegible] [illegible] 42
[illegible] 24 [illegible] [illegible] [illegible]
[illegible] ¶ [illegible] [illegible] [illegible]
22 [illegible] [illegible] [illegible]
[illegible] [illegible] anni [illegible]
[illegible] [illegible] [illegible] anni [illegible]
[illegible] [illegible] anni [illegible] [illegible]
[illegible] [illegible] [illegible] 9 [illegible]
22 [illegible] [illegible] [illegible]

anni sequent [illegible] ad medietatem
anni bisextil[is] addes 2 scilicet 22
[illegible] 34 [illegible] medietatem
anni sequentis post bisextilem [illegible]
Et nove viginti tres
iungis fit medio mensibus
annis post bisextilem [illegible]
hic enim queris medium
[illegible] in bonis medietatem
sequentem mensibus [illegible]
[illegible] mensis [illegible] velud
dicit [illegible] scilicet [illegible]
[illegible] quo ad medietatem
in bonis sit medio anni
sequentis [illegible] [illegible] duobus
[illegible] [illegible] ad [illegible]
mensis [illegible] in bonis [illegible]
incipiunt [illegible] [illegible]
que patent [illegible] [illegible]
Ce las ta flos [illegible] ia
Vin lux [illegible] [illegible] anni
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] anni
quibus [illegible] incipiunt
[illegible] / [illegible] [illegible]
anni bisextilis [illegible]
Ci las [illegible] [illegible] [illegible] [illegible]

ca [illegible] loca [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] in [illegible]
[illegible] [illegible] [illegible]
Sapiens [illegible] sapit [illegible]
[illegible] avarus habet
[illegible] [illegible] habet [illegible]
bona bene [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] Dat [illegible]
epulas [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] scilicet a b c d e f g
[illegible] representant in primo
[illegible] ubicumque fuerint
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] in bonis [illegible]
Labes pellit nutri suppe
tit [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] Bibit
aquas [illegible] [illegible]
[illegible] [illegible] Elegit
[illegible] [illegible] [illegible]

... ras tempus ut
... pigrum rase p[er]q[ui]rut
Et educabat virgo pupil-
la resultat Ardebat lu-
cifer apparens tempore in-
singulis mensibus solum pe-
... plurarum aliorum deorum
... lune dispergunt Et pr[ima]
luna integra deorum vini
deorum desinit ultra tempus ipsarum
post modicum ultra ... repud-
iat Et per partes ...
valent ... per ... per quod
... valet duo per ... quia
ut Aries et Thaurus sunt
... per ... pro ... deorum singulis
quod ... partem ... inter
... intermes plures ...
Decedit generalis in ante
unia ... Alba lucat
luna tamen patella per
tota Decet ...
apparens tytulo resultat
singulis temporibus ... sunt
... plura quod sunt maior
... alphabeti ... audiut
Et at luna deorum vini deorum desinit

complet ... alterum
in ... mensibus ... duobus ...
... luna et ...
[illegible]

[illegible] in primo libro determinata sunt illa que concernunt [illegible] motibus solis et lune [illegible] quod sit luna [illegible] [illegible] consequenter [illegible] [illegible] determinandum est [illegible] solis et lune [illegible] capitula [illegible] [illegible] libri [illegible] [illegible] in duos tractatus [illegible] motu lune in 2o [illegible] motu solis [illegible] motu lune [illegible]

[illegible]

[illegible] [illegible] [illegible] in illa [illegible]
[illegible] [illegible] [illegible] [illegible] que
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

Hec habitis vel probatis si
medicus medicans in
aliquo dubitare voluerit
sanguinolenta primo que per [illegible]
[illegible] procedit cum [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] placatum
[illegible] [illegible] membre [illegible]
sinistre manus [illegible] de uno
membro ad aliud de una
manu ad aliam de uno
[illegible] ad aliud [illegible] plic
[illegible] ad membra [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
ad [illegible] membra [illegible]
inequalis membre [illegible] [illegible]
hoc [illegible] [illegible] si aperitur
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] Si non aperiatur in
aliquo [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] ad [illegible] [illegible]
[illegible] ad membra [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] accidit
[illegible] [illegible] [illegible] accidit [illegible]
[illegible] [illegible] [illegible] ut [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
Si aperitur [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] ad [illegible] [illegible]
ad [illegible] Si et ad membra
[illegible] [illegible] placati [illegible]
[illegible] [illegible] accidit
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
Si accidit in membris [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] inequalis
membra [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
accidit [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] ad
membra [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

tangente medios predictos o.
minuta predictorum quodlibet quere
ante pro minutis radicis. Isto [illegible]
[illegible] et minuta que inuenta
vel addere Loco luce. Quando
operaris cum prima die pro lunae
[illegible] ad [illegible] [illegible] [illegible]
[illegible]. Quando vis operari pro
et que pertinet tue aliquam
minuta predictis minutis fuit ad
dendum. Si autem cum prima ordines
ultimos pro lunae [illegible] viii
lux [illegible] sit opus [illegible]
addicione minutorum unius [illegible]
et addendum ad adiungendum
Quot ad minuta [illegible] diei
pro lunae sunt adiungenda patet
per [illegible] [illegible]

Michael [illegible] primum [illegible]
[illegible] subversa [illegible]
Luna visa [illegible] [illegible]
[illegible] [illegible] [illegible] viii
[illegible] et reliquis
cum suprapositis minutis [illegible]
[illegible] per [illegible] [illegible] minuta
[illegible] pro lunae [illegible] et
[illegible] Michael [illegible]
diei [illegible] que [illegible]
minuta [illegible] [illegible]

[illegible] 2ae diei [illegible] 3a diei
[illegible] Hoc facto adde
minuta inuenta ad minuta
radicis [illegible] ad [illegible] adde
[illegible] [illegible] [illegible] minuta
ut plura [illegible] sub [illegible]
minuta et [illegible] adde [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] adde
[illegible] [illegible] radicis [illegible]
[illegible] ut plures [illegible]
[illegible] [illegible] [illegible] adde
[illegible] [illegible] [illegible]
[illegible] adde [illegible]
[illegible] ad [illegible] radicis [illegible]
ad [illegible] [illegible]
ut plura [illegible]
[illegible] [illegible] et [illegible]
est [illegible] et [illegible]
[illegible] [illegible] ad
[illegible] illius diei placiti
ita [illegible] inequalis [illegible]
[illegible] [illegible] capietur
[illegible] quantum [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

die quarta docet inveniendi gradus signorum in quibus die ibi primo est minuta capitis ipsius gradum in 3a docet invenire minuta gradum lune de quibus die ibi primo est minuta capitis. Primo notandum quod invenire medium motum lune est reperire certum signum zodiaci sub quo luna invenitur et ad est certum gradum illius signi et plus etiam minuta eius gradus. Cum zodiacus continens gradus certis octave spere dividitur in 12 partes equales que quidem appellantur signa. Quodlibet autem signum dividitur in 30 partes equales que quidem vocantur gradus plus. Quilibet gradum dividitur in 60 partes equales et quelibet earum vocatur minutum. Si ergo quis voluerit de quo signo zodiaci sit luna ille querere debet que dies presentis proxime precedit ipsum diem in quo est scire voluit et alia die presenti debet nunc et ut est. Consideratur ipsius ad illum diem in quo est scire voluit incipiendo capio medio medius numerando de uno medio ad aliud donec perveniat ad illum diem in quo quidem scire lune et illius diei medium diligenter consideret. Deinde minima ipsius signorum secundum septem sculpta scripsit et donec perveniat punctum signatum ponendo de quibus medio unum gradus et quod diem cadebat per medium signatum illius secundum la ostendit signa lune illius diei et est quota sunt in ordine alphabeti est ex quotatis quod si dies presentis sunt de anno pari sicut quintus tercius et septimus nonus et capio ipsius signorum est incipiendum secundum septem sculpta scripsit. Si autem dies presentis sunt de anno pari ut 2us 4us 6us octavus et cetera ipsius signorum est inchoandum procedendo deinde ad certum capio adhuc secundum capricornus. Contra adhuc est quod quod operacio fit ad duodecim decimus partibus incipiendo tamen ipsum signorum si tunc ad medium signatum cadebit a qua ipsam directionem tamen quarum celat ergo et apparuis in tabulis unum signum et secundum. Contra partem secundo quod si quis scire voluerit de quoto gradu predicti signi sit luna ipse inveniet eo ipsius gradum secundum tabulas ipsius ponendo de quibus medio unam directionem et directo tangens medium quibus signatum ostendit gradus lune predicti signi qui gradus sibi dicit plus gradibus radicis. Secundo contra partem secundo quod scire de quoto minuto cuiuslibet gradus sit luna eo invenire medio ipsius minutorum secundum concordantem talis ipsius ad ipsum signatum capere diem et de tangens medium signatum ostendit minuta predictorum gradum qui sibi debent subtrahi radicis anni. Et si ipsius deficiant respiciet est ex quoto quod minuta sunt inventa vel ostendit locum lune et est quod sit operacio eius 3a die presenti. Et si si fiat operacio eius 20 die presenti et cetera et quot radicis et a qua minuta predictis minutis prius adiungenda quod potest ex hoc nisi celo pervenit. Sed 3a dicto deficit

tunc diei presenti et illius minuta deficit. Contra secundo 2a dicto sed alio deficit 2e diei presenti et sit ibi minuta quia c est tercia et l 11 in ordine alphabeti quod le facient 11 et dabit diccionibus advertendo primo partes lineas omnes sicut quod quod sit operacio eius for ultimis diebus presentibus ibi primo unum luna tunc unus gradus predictis gradibus est adiungendus. Contra tunc ibi est facto quibus est 2a primo in qua dat modum operandi cum predictis gradibus signis et minuta dicta veniendo medium motum lune. Iste modus operandi est talis primo quod sed est operacio quod dicta sed quod proposita est radix lune quo ad signa gradus minuta diei placati tunc minuta inventa debent addi cum minuta radicis. Et si tunc ex tali additione provenerint 60 minuta vel plus tunc debent subtrahi 60 minuta et pro illis 60 minutis sed addi unus gradus tenendo residuum si quod fuerit primo. Secundo adde gradus inventos ad gradus radicis tamen et si tunc 60 vel plures gradus provenerint tunc pro 60 gradibus adde unum gradum signum prefatis signis subtractis residuum si quod fuerit tenendo pro gradibus. Tercio adde signa inventa ad signa radicis et si ex tali additione provenerint sex signa vel plura tunc subtrahe 6 signa et residuum si quod fuerit tenendo pro signis prefatis et totum residuum sed unus signorum gradum et minutorum est medius motus lune in meridie diei placati. Hoc supposito quod capiatur duo signa de 30 gradibus debet capi unum signum et cetera.

Si autem medium motum lune scire volueris ad certum tempus post meridiem tunc divide diem naturalem in 60 partes que dicuntur minuta diei quorum minutorum quolibet faciat duas horas. Divide ergo quot minuta post meridiem diei sunt elapsa. Si igitur sunt pervenerit quod 30 tunc prima capitis medio digitorum et gradus medium ultimum minuti. Deinde minima ipsius scripsit sculpte et directo tangens sub medio signatum primum ipsius ostendit gradus quos adde gradibus motus lune in meridie. Et si predicti ipsius deficiant respiciet et quociens respiciunt tociens

adde 6 gradus gradibus inventis in angulo inveniens minuta graduum per quos lupus labes pollet. Si vero plura minuta dierum fuerint quam 30 tunc pro 30 minutis accipe 6 gradus et 34 minuta et ad residuum minutis operare sicut prius dictum est. Sequitur docere invenire medium motum post meridiem. Quod si volueris scire medium motum lune in aliquo die post meridiem tu scias quod dies naturalis dividitur in 60 partes quarum quelibet vocatur minutum diei, quorum minutorum quinque faciunt duas horas vel correspondent duabus horis sic quod in duabus horis sunt clausa 5 minuta diei. Similiter 12 horis correspondent minuta 30 diei et octo horis correspondent 20 minuta. Similiter 6 horis correspondent 15 minuta. Est sciendum quod minuta diei 24 continentur usque ad tempus proposito post meridiem sunt elapsa. Si igitur minuta elapsa post meridiem sunt pauciora quam 30 tunc intra cum predicta digitorum et considera numerum ultimi minuti, deinde intra illos lupus Saparis stulta, usque ad numerum signatum et directe tangentes numerum signatum sunt gradus. Quos adde gradibus motus lune in meridie. Et si predicti lupus Saparis stulta deficiant recurrendum est quousque recurrunt. Tunc adde 6 gradus gradibus inventis. Ergo intra quos lupus labes pollet usque ad numerum signatum et directe tangentes numerum signatum sunt minuta graduum que adde ad minuta motus lune in meridie. Si vero fuerint 30 minuta elapsa post meridiem tunc pro eis accipe 6 gradus quos adde ad gradus motus lune in meridie et capies 34 minuta que adde ad minuta motus lune in meridie. Si vero sunt plura minuta diei elapsa quam 30 tunc pro 30 minutis accipe 6 gradus et 34 minuta que adde sicut prius et ad residuum minutis operare sicut prius dictum est, sed si intrando per medium ad numerum signatum intrando quos lupus Saparis stulta, tunc adde gradus et istos lupus labes pollet recurrendum usque ad numerum signatum.

Ex predictis tempus utile minutionis seu flebotomie faciliter potest inveniri. Videndum in predicta in quo signo sit luna in aliquo die. Si enim est in signo bono valens est minutio in ipsa die. Si autem in signo mediocri est mediocris. Si autem in signo malo tunc non convenit minutio seu flebotomia saltem in tempore estatis licet in tempore necessitatis frangit legem. Tunc tempus est congruum vel promptum ad egritudinem, primum autem est sanorum valetudinem preservans ab infirmitate. Quod autem signum sit bonum vel malum vel medium patet per versus istos.

Ubi devena bene findimus

Urna sagitta. Cancer pisces media, cetera sunt dicere mala. Respiciendum est etiam etas lune nam certa dierum coniunctionis non debet fieri flebotomia secundum aliquos.

Ante diem quintum post vicesimum quoque quintum. Ante vitanda cum mors sit flebotomia. Sequitur nec esset valet minutio tempore [illegible] in perfectis.

Cum luna plena non tangatur tua vena. Est molestum est in diebus canicularibus calidissimis et in diebus oppositis frigidissimis et non tres dies egipciacos quod frangit dictus dudum reprobatos nec dies speciales in quibusdam kalendariis positos eo quod non sunt effectus luna existente in bono signo et cum bonis planetis. Similiter malum est tangere membrum luna existente in signo eius membri respiciente teste ptolomeo in centiloquio propositione vicesima dicente. Secare eo ferro in aliquod membrum luna existente in signo respiciente membrum horribile est. Quodlibet enim signum habet membrum corporis humani quod prevalentibus infirmitatibus. Aries enim est signum cum aliquo et sicut igneus habens respicere caput et partes eius. Et luna existente in eo est valens minutio in ea parte corporis

Et quod in capite cum eius lesioni
capitis congruat balnea ingredi utile
est reponere capitis si non permittit
¶ Geminus vero est signum aereum frigidum et
siccum, respiciens colla lingwas
et guttur, ideoque passionibus eorum ne
gat medelam, et luna in conjunctione secus
[illegible] plantatio aut arborum et vi
nearum est valens eo quod cito crescit
et augmentum festinat, et luna est
in signo pro ¶ Cancer autem est signum tunc
calidum et humidum respiciens brachia
manus et humeros et luna existente
eo [illegible] oportet vene brachii
quod aut [illegible] egredi non potest aut
morbo notiorum [illegible] et plagas
ictus potest [illegible] mala et unguium
[illegible] et ulterius [illegible] nisi ad mag
longitudinem non est facienda medela ¶ Cancer
quoque est signum [illegible] frigidum humidum
aquaticum respiciens pectus cor cum
pulmone ideoque medicamine pectoris
et cordis pectus [illegible] si non permittit
potionibus [illegible] purificandis est commodum
¶ Leo quoque est signum [illegible] calidum siccum
et igneum stomachum et cor respiciens
quare [illegible] vomitum medelam quoque
si stomacho non permittit minutionem
[illegible] ¶ Virgo quoque est signum [illegible]
frigidum et siccum [illegible] et [illegible]
[illegible] respiciens [illegible] negat me
delam valet [illegible] et [illegible]
[illegible] Libra quoque est signum [illegible]
calidum et humidum aereum [illegible]
[illegible] et renes respiciens negat quoque
medelam omnibus illis [illegible] sanguinis
minutionem ¶ Scorpio est signum [illegible]
frigidum et humidum aquaticum [illegible]
[illegible] vesica [illegible] libidinibus re
spiciens balnea obstat [illegible]

mat secus [illegible] si non permittit ¶ [illegible]
[illegible] negamus medelam Sagitta
rius est signum [illegible] calidum et
igneum siccum et [illegible] respiciens
et luna in eo [illegible] secundum est valens
balnea ingredi plurimum est [illegible]
[illegible] capitis et unguium
[illegible] et capillis negat
fieri medelam ¶ Capricornus est signum
[illegible] frigidum et [illegible]
[illegible] respiciens [illegible] negat me
delam [illegible] et [illegible]
est valens secundum quoque si non per
mittit ¶ Aquarius est signum [illegible]
[illegible] calidum et humidum [illegible]
[illegible] et [illegible] ad [illegible]
respiciens [illegible] medicamenta
et [illegible] [illegible]
[illegible] minutionem ¶ Pisces autem
signum [illegible] frigidum humidum et
aquaticum plantas pedum respiciens
[illegible] sanitati pedum
[illegible] podagre et omnibus
pedum [illegible] medelam non permittit
¶ Capitulum [illegible] in quo [illegible] quod
quod [illegible] [illegible]
[illegible] mobilis lune et [illegible]
[illegible] et [illegible]
[illegible] [illegible]
[illegible] et [illegible] [illegible]
influendi [illegible] [illegible]
et [illegible] ibi [illegible] ¶ Prima
[illegible] quod [illegible] est tempus [illegible]
[illegible] et [illegible]
[illegible] est [illegible] si et [illegible]
[illegible] et in quo [illegible] non
attendatur et [illegible] tempus [illegible]
[illegible] regula [illegible]
[illegible] frangit legem
et [illegible] tempus est [illegible] vel [illegible]
[illegible] ad [illegible] ¶ Secundo tempus
[illegible] est [illegible] et [illegible]
[illegible] complementum et [illegible]
[illegible] et [illegible]
[illegible] volentes ab [illegible]
[illegible] est [illegible]

et sanguinis modicata superfluitas
scilicet quod flebotomia est initium sanitatis et
mentem purificat memoriam [illegible] vesicam
purgat cerebrum [illegible] medullas calefacit
auditum aperit lacrimas stringit stomachum
[illegible] rectificat fastidium tollit digesti-
onem parat vocem [illegible] producit
sensum acuit ventrem [illegible] somp-
num [illegible] [illegible] sanguinem
purum nutrit [illegible] et vi-
tam longiorem administrat. Item non
quod omnia flebotomia [illegible] debet
considerari scilicet etas hominis, etas lune, et
signum in quo non luna. Vel fuerint
tales [illegible] regule. Prima. Et ante
[illegible] annum et post [illegible]
[illegible] nulli convenit flebotomia quo
ad tempus [illegible] et [illegible] propter
[illegible] et [illegible] debilitatem. Secunda
[illegible] viginti annos et [illegible]
[illegible] sanguinem in prima quadra
lune magis non adulti scilicet de 30 an-
nis in 2a quadra et homines de
[illegible] et quinquaginta annos de
tertia quadra in quarta non quadra
nulli convenit flebotomia quia illi quadre
correspondet senectus que non [illegible] san-
guinem [illegible] scilicet quod iuvenes debent
minuere [illegible] luna crescente.
Senes vero luna decrescente [illegible]
luna vetus vetus. iuvenes nova
luna [illegible]. [illegible] scilicet de etate
lune tales [illegible] regule. Prima tempore
oppositionis non est facienda flebotomia.
Secunda regula [illegible] temporibus [illegible] scilicet
[illegible] non convenit flebotomia
[illegible] et [illegible]
[illegible] Vena [illegible] debilitat.
Tertia regula [illegible] malas
[illegible] venas [illegible] [illegible]
[illegible] venas que est [illegible]
[illegible] tales [illegible] regule. Prima
quod in diebus canicularibus et calidis-
simis et [illegible] oppositis scilicet frigidis-
simis non est facienda flebotomia.
Secunda regula est quod in vere et in autump-
no plus [illegible] flebotomia quam in [illegible]
yeme et in estate [illegible] homines
[illegible] [illegible] egritudi-
nes [illegible] in vere et in estate de-
beri flebotomia in parte [illegible] in [illegible] autump-
no et in yeme in parte sinistra [illegible]
[illegible] [illegible] autumpnus [illegible]
[illegible]. [illegible] parte [illegible]
[illegible] tales [illegible] regule. Prima
quod luna [illegible] signis [illegible] et
[illegible] plus [illegible] vene [illegible]
[illegible] et [illegible] [illegible] illius

qui non [illegible] est [illegible] signa
[illegible] [illegible]. [illegible]
aquatica. Si melancolia [illegible] signa
[illegible]. Si flegmatica signa [illegible]
[illegible] [illegible] signa est [illegible]
[illegible]. [illegible] malas [illegible]
[illegible] [illegible] in [illegible] signo [illegible]
[illegible] [illegible] [illegible] quod [illegible]
[illegible] in [illegible] quod [illegible] signa
faciunt [illegible] ut aries leo et sagit-
tarius faciunt [illegible] [illegible] signa
colerica et masculina [illegible]
[illegible] [illegible] colerica
[illegible] [illegible] [illegible]
[illegible] et sunt [illegible]
et [illegible] ut patet per [illegible].

[illegible] sunt [illegible] [illegible] vii [illegible]
[illegible]. [illegible] sunt [illegible] [illegible]
sunt aqua [illegible] ordinando igitur
in primo [illegible] [illegible] in [illegible]
[illegible] medii digitti acum in primo [illegible]
[illegible] anularis digitti et aquam [illegible] primo
[illegible] auricularis vel minimi digit-
ti et [illegible] [illegible]. [illegible]
[illegible] [illegible] tunc [illegible]
[illegible] per [illegible] signa digitis [illegible]
[illegible] per [illegible] elementa [illegible].

Tempus de medio motu lune
de medio motu solis est
[illegible] ad que invenienda
[illegible] sunt quatuor radices
[illegible] quatuor annis solaribus
deservientes scilicet anno [illegible]
[illegible] 1 [illegible] 6 1 [illegible] que
patent per [illegible] versum [illegible]

[illegible] tibi signa [illegible] gradus
[illegible] minuta. [illegible]
[illegible] [illegible] [illegible] ambas [illegible]
[illegible] signa [illegible] [illegible]
[illegible] radices [illegible]. [illegible]
[illegible] [illegible] [illegible] [illegible]
quatuor [illegible] [illegible]
prima [illegible] [illegible] omnes
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] reputat

Exempla uero sicut sic pone quod a [illegible] quarto anno scilicet bisextili oportet videre aut forte sic scilicet [illegible] te [illegible] minuta [illegible] quatuor annorum [illegible] ita quod [illegible] [illegible] primo anno defuit [illegible]

Adde igitur aut radicem [illegible] annorum [illegible] adde [illegible] quatuor [illegible] [illegible] adde [illegible] minuta et [illegible] [illegible] minuta [illegible] minuta [illegible] Et si [illegible] minutorum 60 uel plura minuta [illegible] [illegible] adde [illegible] gradus gradibus et reliqua loco minutorum [illegible] Indigemus 2o diebus [illegible] equalibus ad inueniendum medium solis motum [illegible] primo [illegible] quam [illegible]

Si vis cum [illegible] motum [illegible] quinque [illegible] dies dat tibi [illegible] [illegible] [illegible] equalibus in annis [illegible] [illegible] [illegible] [illegible] [illegible] bisextili [illegible] [illegible] [illegible] est [illegible] Cum ergo medium motum solis [illegible] quo die [illegible] volueris vide quis dies principalium [illegible] [illegible] in [illegible] manus [illegible] [illegible] [illegible] medio pollicis sinistre manus [illegible] [illegible] ordine [illegible] Incipiens de [illegible] medio [illegible] [illegible] ad aliam [illegible] digito ad aliam donec perue[illegible] ad diem [illegible] [illegible] [illegible] [illegible] [illegible] radicem solis [illegible] [illegible] gradus et minuta et vide quot dies [illegible] [illegible] [illegible] [illegible] sub [illegible] Et [illegible] [illegible] in primo medio pollicis

sinistre manus et [illegible] in [illegible] medio [illegible] donec perueneris ad [illegible] et [illegible] illic [illegible] [illegible] solis quos [illegible] radicem hoc [illegible] una [illegible] [illegible]

Cum [illegible] ab medio pollice [illegible] manus [illegible] [illegible] digito ad aliud [illegible] ad aliam et [illegible] perueneris ad [illegible] medium [illegible] ad [illegible] [illegible] [illegible] digitti [illegible] est in medio [illegible] [illegible] [illegible] altius digitti donec perueneris ad [illegible] et [illegible] illic [illegible] est [illegible] minutorum sol [illegible] [illegible] radicis Quo facto adde [illegible] motu lune minuta gradus et [illegible] minuta gradus et [illegible] radici et patebit tibi motus medius sol [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] gradibus [illegible] [illegible] medium motum sol [illegible] ad [illegible] et minuta in [illegible] diei [illegible] [illegible] ad [illegible] diei [illegible] [illegible] autem [illegible] et [illegible] [illegible] [illegible] tunc [illegible] [illegible] [illegible] [illegible] ad [illegible] [illegible] [illegible]

Nichil [illegible] [illegible] [illegible] [illegible] [illegible] Cuius [illegible] [illegible] [illegible] primo diem [illegible] defuit [illegible] vel est [illegible] [illegible] diem [illegible] defuit [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Sed [illegible] diem [illegible] die principali defuit et quarta quarte [illegible]

Tractatus secundus in quo determinat de medio motu solis in [illegible] [illegible]

motus lune et solis sunt mediorum
coniunctionum et de zodiaco differentiarum sol
et lune 2ᵃ ibi · Sciendum in motibus
lune. Oppositionum autem que in calendario
in 2ᵃ parte huius ponit quere per radicem
motus solis vel radicem argumenti anni
et in 2ᵃ docet invenire medium motum
solis ibi · Cum ergo scire volueris per
duo sequentia docet invenire radicem
argumenti anni 2° dies primales ibi ·
Considerandum ergo 2° sequentia parte ibi quomodo
per adinvenire medium motum solis
scire confitearis ponit quod radices an
norum priorum in calendario anno domini mᵒ
ccc xx quadrantur radix est ... signa ... 8
gradus 39 minuta et secundum hoc fac radicem
anni domini 1 ccc 6 ... radix est
... signa ... 8 gradus et 2 ... minuta
Sed radix est anni est ... 1 ... a est
... signa ... 8 gradus 10 minuta. Similiter
secundum hoc fac radicem primi anni ... 1 ... 8
qui est bisextilis que radix est ... signa
... gradus 46 minuta. Ad sciendum
autem radices sequentium annorum primis
sequentibus annis adde radices preteritorum
... annorum ... 2 minuta et preteritis
sequentibus ... annis adde radicibus
primorum ... annorum ... minuta. Sed ad radices
sequentibus ... annis adde omnibus radicibus
primorum ... annorum 6 minuta 2° consequenter
sic quod quotiens elabitur ... anni totiens
eius adde 2 minuta ... priorum annorum
Vel sic facias pro ... radice in
... annis ... in anno
anno post bisextilem ... habe
radices sequentium primo ... annorum
... adde radicibus ... annorum ...
... 2 minuta ...
anno domini 1 ... 2 1 ... eius
post bisextilem 2 radix eius ... signa
... 8 gradus ... 1 minuta. Sed radix se
quentis anni ... 20 ... signa
... 8 gradus 32 minuta. Sed radix
sequentis anni ... 23 ... signa ... 8
gradus et 18 minuta. Sed ... sequentis
anni ... 2 ... qui est bisextilis ... signa
et ... 8 gradus ... minuta. Vel si ...
... radices ... annorum in ...
... radici
... et minuta 2 ... radices ...
... annorum ... 24ᵗⁱ 26ᵗⁱ 2... et 28ᵘⁱ
... minute ... 60 ...
... additis ... 60 ...
et ... adde ... gradus ... 9

consequenter si quod sunt ... quintis
Sed prima parte primali non si volueris scire
aliquo die medium motum solis ... inde
primus dies primalium primo ... par
... unica ... ad ... medio
pollicis sinistre manus 2ᵐ ordine
computabis usque ad diem placatum
... duo digito ad aliud 2 ...
... pollicis dextre manus
... dierum plenarum ...
... fol ...
anni ... gradus 2 minuta ... inde
... dies primales complete sunt elapsi ad
diem placatum et ... signa
solis. Sed tot signa scribe ... pro ...
... dies primales complete sunt elapsi
... pollicis si
nistre manus ... 12 ...
... 12 ... usque ad ...
et ... ad ...
gradus solis ... radicibus
... ultimo ...
... pollicis ... manus
8 9 10 ...
... ad aliud ... ad aliam
...
radicis ... digiti ...
... radice ...
... digiti ...
... est ... solis
que scribe ... radices. Et ...
adde minuta inventa ad minuta radicis
et si 60 ... 60 et ...
adde 1 gradum gradibus ... adde gradus
inventos ad gradus radicis 2 signa ad
signa ... est ... lune
et hoc est ... die ...
Sed quod sit ... die primali et
consequenter ... diebus ... tunc
... minuta ... inventis ... ad
... ut ... metro
... consequenter ...

Habitis in motibus solis
et lune coniunctionum media
... invenire que eius
... medium motum solis et
lune ... aliquo die ...
... in corpore solis
et ... motus ... invenire
... signo gradu et minuto
... coniunctio ... est in meridie

illius diei ad quem computas et si
aut prius in diebus prius gradibus
et minutis tunc que ad aliud diem
in quo ultima prius dictum est gra-
dibus et tunc subtrahe motum lune
a motu solis illius quod tunc rema-
net in gradibus et minutis vocatur
distancia horarum aut gradibus
distancie correspondentes invenies
per hos versus qui subsequuntur

Abcat tibiam contrat atres
gradium Nam nobis fallit
agilis pretenda reddibit

Per hos versus horas distancie gra-
duum sic invenies minuta gradus dista-
tie per numerum digitorum incipiendo
in primo medio indicis et adiunc-
tum gradum distancie minuta cedo
predictos versus et dictio tangens me-
tra xii signa (?) ostendit
numerum horarum predictis gradi-
bus distancie correspondentium
minuta vero horarum invenies per hos
versus subsequentes nunc

Virtutes summi spiritu pariter relato
Salutem opi reliquit de vita
videri Repetet in leve qui cetera
duplare docet

Alia cedo pu-
tes versus et dictio
tangens medium signatum xii sil-
labas sicut ostendit minuta predictarum
horarum predictis gradibus distancie
correspondentium hoc facto dupla minuta
graduum si que sunt ut invenit sic
tum versus vel vere in medietate producite
et duplata addantur ad minuta
horarum Si tunc collecta excedant
crevent ut 60 vel plura minuta tunc
pro 60 minutis adde horam horis prius inven-
tis et residuum prius horarum fuerit

et pro ille horae et minuta ostendunt
tempus medie coniunctionis horas
incipiendo a meridie diei ultimo
inventi Si tunc medium motum
solis a medio motu lune subtrahis
et gradus et minuta ut prius dictum
est computans tunc tot horis et
minutis coniunctio media in meridie
illius diei contingit preventa
aut coniunctionis unius mensis ab
inceptione alterius tunc faciliter
poteris per hos versus invenire

Adde dies novem viginti duo
horas superistam Et quadragin-
ta cum quatuor adde minuta
luna totum tue patet quod sequens
manifeste

Scilicet i diem sine
coniunctionis ad horas et minuta
deinde adde predicte dici 29
dies et horis adde 12 horas
similiter minutis adde 44 minuta Si
per talem additionem 60 minuta excre-
verint pro illis minutis addes unam
horam prius inventis et residuum
loco minutorum fuerit Si vero plures
quam 24 horae excreverint tunc pro illis
addatur una dies diebus pre-
dictis et residuum loco horarum
relinquatur Expliciunt tali
dispositione procedendo et sic tunc
sumatur numerus dierum horarum
et minutorum erit coniunctio in mense
sequente et sic modo per unam
coniunctionem invenies per aliam
quam diu placet Explicit
Capitulum tercium sequitur secundum de quo
cognitione motus solis et lune
docet invenire mediam coniunctionem
solis et lune Quo primus invenire
mediam coniunctionem solis et lune
que ex predictis medium motum solis
et lune de aliquo die Januarii
quo ipsa coniunctione esse debere

gradu et minuto et tempore quo quod quelibet mediorum motuum contra fuerit tres motus et si tunc inveneris solem et lunam esse in eodem signo gradu et minuto tunc coniunctio media reperta est in meridie illius diei ad quod operatus es. Si vero fuerint in diversis signis gradibus et minutis tunc queras ad aliud diem in quo fuerint eodem signo et ad maximum gradum distinctum in gradibus. Et si motus solis fuerit ultra ... tunc subtrahe motum lune a motu solis et tunc id quod remanet in gradibus et minutis dicatur distantia solis et lune. Horas autem gradibus huius ... distantie invenies per hos versus. A bolt ... minuta gradibus distantie ... digitorum incipe ... in primo medio ... signando medietatem gradus distantie et tunc ad medietatem signatam ... predictos versus ... tangens medietatem signatam ... respondet ... gradibus distantie correspondentia apta ... invenies per hos versus ... predictos versus ... digitorum et ... tangens medietatem signatam ... cum minuta ... horarum ... gradibus distantie ... Hoc facto duplica minuta gradus distantie si aliqua fuerint et ea duplicata adde ad minuta et si tunc ... tibi addiciones ... excreverint 60 minuta vel plura tunc subtrahe 60 minuta et ... adde unam horam ... et repone ... residuum ... et tunc ille hore et minuta ... medie coniunctionis ... est quotato ... in ... diem ... ultimo invenisti ... est ... ad ... quod ... motus solis et lune ... aliquis noviluniorum et operatus fuerit ... si ... quod ... minuta gradus lune non fuerint ... gradibus ... solis ... gradum ... gradibus et ... resolve in 60 minuta ... adde ... minuta et ... minuta gradus lune ... gradibus solis. Et si fuerit ... gradus illum gradum accipe et resolve eum in 60 minuta ... duplica duplicatis ... minuta si 60 vel plura

excreverint tunc subtrahe 60 et pro eis adde unam horam et repone si aliquid fuerit residuum minutorum. Quod si non media motus solis a medio motu lune subtrahens et per gradus et minuta distantie in ... est operatus tunc tot horis et tot minutis coniunctio media meridiem illius diei antecessit. Et potest dici de coniunctione ... ita adde ... coniunctionibus. Alio autem modo ... invenies ... tunc modo adde dies coniunctionis alicuius 29 dies et horis coniunctionis 12 horas et ad minuta coniunctionis adde 44 minuta et prodibit tibi ... et ... invenies ... coniunctionem ... ut ... metrum.

Adde horis ... horis coniunctionis ... hoc cum ... si minuta ... minutis ... excreverint 60 tunc pro 60 minutis una hora horis est adiungenda. Si si horas ad horas addideris et 24 horas vel plures excreverint tunc pro eis addatur una dies diebus predictis repone residuum minutis et horis ... .

Oppositionis ... inveniendo et addicione coniunctionis

Adde 14 dies et ad horas coniunctionis ... 18 horas et ad minuta eius adde 22 minuta et prodibit tibi ... oppositio ... .

Sunt horis ... decem ac ... duo minuta. Adde dies quatuor decem ... sibi luna. ... coniunctionem ... adde septem dies novem horas et 11 minuta et invenies tibi quadra prima. Si vero hoc idem ad oppositionem ... dederis veniet tibi quadra 2a et ... compotus ... de quo sit benedictus ac gloriosus deus in secula seculorum. Amen.

[illegible] ulterius quiaque tam quando quo
[illegible] opposicio solis et lune
[illegible] tunc est oppositio solis et lune
quando sol et luna sunt diametraliter
celi ut dictum est prius et quando sol est in
ariete et luna in libra tunc est oppositio
quia tunc sol et luna sunt diametraliter
oppositis celi quia aries et libra opponuntur
et tunc luna est contrarie figure [illegible]
[illegible] quantitatis solis et lune [illegible]
[illegible] omnes sunt addendum quantitatis
. adde 14 dies et adde quantitatis
adde 18 horas et adiuncta quantitatis
adde 22 minuta et habebitur oppositio
media cuiuslibet quod dictum est
ut clarius in tabulis positum est de quibus
[illegible] adbreviando et quanto dicta
in aliquo mense vel alio non est illius
mensis pro sequentis vel alius est mensis
cuius dat lunacio sumam et quando in
anno est embolismalis ideo quod est em
bolismus tunc non est adbreviandum
[illegible] pro una quam quantitatis est pri
[illegible] quanto et non sequentis et sic est
[illegible] quibus [illegible] domino
deus gloria [illegible] alpha et omega
sit benedictus in secula seculorum
Explicit compotus Rambertus finitus
[illegible] post [illegible]
[illegible] anno nativitatis domini
millesimo ccc tricesimo [illegible]

Quoniam paruus
error in principio ma-
ximus est in fine
teste philosopho primo
celi et mundi et
3o de anima. Con-
sideratio uero solis
et lune et eorum
opposicio sunt prin-
cipia astrologie. necesse
est ipsis uerum
cognoscere tunc ce-
teri partis opusculum precedentis libri
[illegible] et iudicio in latinum
in quo subtiliter tractatur de oppo-
sitione et coniunctione corporum
scilicet solis et lune quibus igno-
ratis omnis pars cognoscere [illegible]
certitudinaliter [illegible] et [illegible]
cyclo lunari et [illegible] in
temporibus particularibus lune
absque solis. Cum tamen in omni
parte opusculi sicut etiam in omni
aliorum scientiarum quorum [illegible] qui-
[illegible] dicere [illegible] [illegible]
[illegible]. [illegible] libri [illegible]
ista requiruntur scilicet titulus
intentio [illegible]
[illegible]
[illegible]
libri [illegible] est [illegible]
sicut [illegible] [illegible]
[illegible] [illegible] quaeritur [illegible]
sit titulus. Et est iste incipit
computus iudaycus tractans
de [illegible] [illegible]
lune [illegible] et [illegible]
sit [illegible] [illegible]
[illegible] [illegible] philosophie [illegible]
[illegible] subordinatur [illegible]
[illegible] mathematica
astronomie [illegible] [illegible]
[illegible] [illegible] [illegible] et
[illegible] [illegible]
[illegible] subordinatur [illegible] [illegible]
mathematice [illegible] [illegible]
[illegible] [illegible] et [illegible]
[illegible] [illegible] [illegible]
[illegible] subordinatur [illegible]
astronomie [illegible] [illegible]
[illegible] [illegible] [illegible]

parte cognitionum concomitantium ista
quibus denominatur. Sed [illegible] quo [illegible]
in [illegible] per [illegible] de [illegible]
[illegible] arbitrarium sive [illegible] compositionis
[illegible] [illegible] [illegible] ad [illegible]
ta [illegible] alludit auctor
[illegible]. Unde est [illegible] rei cognoscere
et [illegible] ille est [illegible] per quod [illegible]
[illegible] [illegible] per [illegible]
Deinde dicitur quod liber in
[illegible] [illegible] [illegible]
[illegible] [illegible] formis [illegible]
[illegible]. Et [illegible] [illegible]
[illegible] [illegible] [illegible]
solum per [illegible] sed [illegible]
[illegible]. Sed quo [illegible] est [illegible]
et quo [illegible] [illegible] [illegible]
Causa igitur materialis huius partis
libri sunt subiecta de quibus est
est pluralitas [illegible]
[illegible] [illegible] aliud assignandum
est subiectum de quo [illegible]
[illegible] [illegible] libri est. [illegible]
[illegible] [illegible] attribuitur
[illegible] [illegible]
[illegible]. Sed [illegible] [illegible]
[illegible] [illegible] est [illegible]
[illegible] sunt [illegible] [illegible]
libri [illegible] sed [illegible] [illegible]
[illegible] sed [illegible] libri.

[margin: est] Sed est [illegible] [illegible] sed
una est [illegible] in qua [illegible] est
una [illegible] [illegible] est qua [illegible]
est aliud est quo aliquid [illegible]
et talis est una [illegible]
[illegible] que sunt [illegible]
sed [illegible] [illegible] [illegible] ut ad
[illegible]. Sed una in qua [illegible]
esse [illegible] accidentium et
[illegible] [illegible] una in qua
[illegible] [illegible] [illegible] alia
una in qua [illegible] sunt [illegible]
[illegible] est ad [illegible] est una
[illegible] quod [illegible] est [illegible]
[illegible]. Et [illegible] [illegible]
est [illegible] [illegible] huius libri
est [illegible] [illegible] est aliud de [illegible]
[illegible] agitur in hoc libro. Sed
[illegible] [illegible] huius libri est
[illegible] [illegible] [illegible] [illegible]

est [illegible] sed [illegible] tractatus et forma
tractandi. Forma tractatus [illegible] libri
[illegible] [illegible] in [illegible] libri
in [illegible] [illegible] in [illegible]
Sed forma tractandi est modus
[illegible] [illegible] [illegible] libro
[illegible] est [illegible] sed [illegible]
ut infra [illegible]. Sed causa efficiens
fuit [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] in [illegible]
[illegible] [illegible] [illegible]
de [illegible] [illegible] [illegible]
[illegible] esse [illegible] in arte
[illegible] [illegible]. Sed [illegible]
[illegible] [illegible] est [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] quod [illegible] [illegible]
[illegible] est [illegible] [illegible] quia
[illegible] quod [illegible] [illegible] per [illegible]
[illegible] [illegible]. Sed [illegible]
[illegible] [illegible] est [illegible]
[illegible] in [illegible] [illegible]
[illegible] huius libri est ut [illegible] illa
[illegible] [illegible] per [illegible]
ad [illegible] libro [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] est [illegible] [illegible]
[illegible] [illegible] libello possit
[illegible] [illegible] [illegible]
[illegible] quod [illegible] [illegible]
[illegible]. Sed [illegible] possit aliquis dicere
[illegible] [illegible] sunt [illegible]
huius libri est [illegible] [illegible]
[illegible] quod [illegible] [illegible]
[illegible] [illegible] quod [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
et [illegible]. [illegible] quod [illegible] [illegible]
[illegible] est [illegible] [illegible]
quia [illegible] [illegible] [illegible]
[illegible] [illegible] apparent. [illegible]
[illegible] est [illegible] [illegible] [illegible]
super [illegible] [illegible] [illegible]
Sed [illegible] est quod [illegible] [illegible]
[illegible] [illegible] sed in [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] est [illegible] quod sol et luna sunt

[illegible]

Me pudet audire
audire talia sic
debet clericus
nescire que potuis
Me piget et miseret plus et tedet quod
Audio clericum presbiterum non posse appellare
Nam quidam nauclerus audit per plebem
Debet inesse presbitero ... antiocie
Aut scitu sathane ... patet et pace
Remanet sensus sic cessat gloria clerici
Et petit sensus ... patet hic et ubique

[illegible]

clerus

[illegible]

pte

[illegible]

[illegible]

[illegible]

Lunarum primam in dominica invenies

Punctus dico plena dies qu[illegible]

[illegible] maius est horarum parcior

Quingentos punctos octuaginta [illegible]

[illegible] luna [illegible] in [illegible]

[illegible] sic ars est [illegible]

[illegible]

Sed si virginis uteri in prospera fiat

Et in continue celitus adveniet

[illegible]

[illegible]

[illegible]

Quoniam ubi utentes vocabulorum
sunt ignari et specialiter
simplicium ut dicit
Aristoteles in primo elenchorum
[illegible] ignorant vocabulis
[illegible] est [illegible] ignorantie
[illegible] et [illegible] et [illegible]
Nos igitur in hoc libro compendia
[illegible]
[illegible] declarare
[illegible] distinguendum
sunt vocabula apud clericos
et plurimus usitata [illegible]
difficultatem [illegible]

[illegible]

[illegible]

Primo sciendum quod primo latis fit mencio de p[illegible] maco [illegible] Sed prin cipium cyclus antiq[illegible] [illegible] designat [illegible] Per [illegible] mensium [illegible] [illegible] tempore cyclum

[illegible]

[illegible]

Secundo sciendum quod 2m eos menses sunt 12 inter quos october est primus apud eos et tisrim hoc nomine tunc appellatur 2us est november marcheswan 3us december keslephe januarius 4us thebeth februarius 5us schebat marcius 6us adar aprilis septimus nisan maius 8us yiar junius 9us siwan julius 10us thamus augustus 11us ab september 12us elul similiter dicitur wader vel tisrim marcheswan keslephe thebeth schebat adar nisan

sed in principio post initium [illegible]
his ultimis [illegible] et sexto octavo
undecimo [illegible] et 4o decimo [illegible]
[illegible] et [illegible]
[illegible] Secundum alios annus qui dicitur
[illegible] sicut dictum
est [illegible] lunatur
in ianuario apud nos sicut
apud latinos in octobri [illegible]
incipiant [illegible]
[illegible]
[illegible]
[illegible] et [illegible]
[illegible]
[illegible] Secundum lunationem [illegible]
[illegible] que est lune
[illegible]
[illegible] pascha
[illegible]
[illegible]
[illegible] Unde [illegible]
[illegible] lunaris
[illegible]
[illegible] Et quibus [illegible]
inter nos et ipsos quo [illegible]
[illegible] lunaris
[illegible] Et [illegible] incipiunt [illegible]
[illegible] incipiunt [illegible]
[illegible] incipit [illegible]
[illegible] etc.

Si autem quis scire voluerit quot
iudei habeant cyclos [illegible]
[illegible] quot nos habemus
pro cyclo lunari. Tunc incipiat
a summitate pollicis [illegible]
[illegible] procedendo [illegible]
in computo manuali et [illegible]
articulo in quo invenitur
annus cycli lunaris noster

et sic invenies 19 in summitate
auricularis digiti. Deinde procedendo
incipiat numerare [illegible]
[illegible] incipiendo in tertio
medio pollicis sic ultimo [illegible]
[illegible] et invenies 19 in
summitate auricularis digiti
et 18 in primo medio pollicis
et 14 in 2o medio pollicis
Et quod quid acciderit super
articulo in quo [illegible]
[illegible] cyclus [illegible]
cyclo habeant iudei [illegible]
[illegible] supposito quod
incipiunt annum in ianuario
apud nos in octobri. Unde
quod nos [illegible] in primo
[illegible] qui invenitur in 3o
medio [illegible]
[illegible] iudei [illegible] incipi-
endo in 3o articulo pollicis
[illegible] articulum [illegible]
computando [illegible] 12
incipiunt in [illegible] anno
in octobri [illegible] pollicis
[illegible] iudeis [illegible]
[illegible] Secundum [illegible] nobis [illegible]
[illegible] Deinde
articulum [illegible]
tibi cyclus | Sed auctor [illegible] in [illegible] cycli [illegible] apud

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et [illegible] dictum [illegible] ut

Anno domini 1423 [illegible] ad [illegible] circa. Si addantur eis 3 a b c [illegible] resultabunt 7 1 9 2 [illegible] [illegible] per collatos [illegible] per 19 [illegible] [illegible] [illegible] [illegible] [illegible] agita [illegible] per [illegible] per 2 1 3 [illegible] et [illegible] aut resulta[illegible] aliquid aut nichil. Si aliquid quod erit [illegible] 19 [illegible] [illegible] aureum [illegible] apud [illegible]. Si vero [illegible] resultabit tunc aureus [illegible] erit 19. [illegible] nobis [illegible] 1 [illegible] [illegible] quo [illegible] [illegible] [illegible] 1 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] septuaginta tria [illegible] [illegible] [illegible] anni [illegible] 3 a b c [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Horas igitur prolixitas [illegible] [illegible] quot [illegible] quarum horarum [illegible] in mille et 80 particulas dividuntur sub [illegible] qualibet [illegible] [illegible] [illegible] [illegible] [illegible] quas quidam particulas [illegible] appellant ut [illegible] in [illegible].

Horarum [illegible] in [illegible] octoginta. Et partes mille [illegible] quas [illegible] [illegible] ille. [illegible]. Et [illegible] [illegible] [illegible] in duas partes [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] alia [illegible]

[illegible]

Quintum igitur inolath

aliquam mensis sive subtrahunt computo inolath precedentis addat ad illud unam feriam 12 horas et 793 clachim et hoc 28 diebus super addit. Et sic clachim addunt ad clachim prius computa hoc ad horas sive ad ferias etc. Si precedentium fuerit lunas que sequentem. Comutatis adhuc lunam [illegible] feriam horas [illegible] clachim [illegible] eidem. Septuaginta [illegible] et nonaginta [illegible]

[illegible]

[illegible] praeposito. Si autem addi[illegible] clochiis ad clochia quae provenerunt plura clochiis quam 1080 tunc abiectis eis [illegible] 1080 et residuum [illegible] de luna [illegible] ad horas. Scilicet si horae provenerunt in 24 tunc abiectis debent sub[illegible] 24 et residuum addi unum diem ad dies. Si vero dies provenerunt supra 7 abiectis debent [illegible] supra 7. Et residuum debent [illegible] [illegible]. Unde dato [illegible] quod [illegible] anno domini 1433 [illegible] [illegible] 1 die 8 hora [illegible] [illegible] quadragesimo [illegible] [illegible] Et [illegible] [illegible] ad [illegible] [illegible] [illegible] 1 43 clochia [illegible] [illegible] [illegible] [illegible] 20 hora [illegible] 433 clochia [illegible] Scilicet [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 3 19 hora [illegible] 46 clochia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 et 12 horae et [illegible] clochia [illegible] [illegible] [illegible] [illegible] [illegible] 30 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 [illegible] et [illegible] die et [illegible] horis et 493 clochiis [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 30 [illegible] 28 [illegible] [illegible] [illegible] [illegible]

140

a 493

[illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 4 [illegible] [illegible] [illegible] [illegible] 432 [illegible] [illegible] [illegible] [illegible] [illegible] Et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 493 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 dies [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 28 [illegible] [illegible] Et [illegible] 28 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 30 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 2 [illegible] [illegible] luna feria [illegible] hora 493 clochiis [illegible] [illegible] [illegible] luna [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

Habis autem molath aliquius mensis et placet volumus ut bene sciatis an nec recipe productum et horas addes 11 horas et partes quibus fractis et addes clochium 28 a. et operare ut prius praedictum subtrahendum et tunc redibit molath prius inventum tunc bene est operatum. Et talis vel apud Judeos statuta dicitur

Item probare velis si recte feceris. Adde videlicet horas quinque post ferias quarta clocham [illegible] equata ab septem. Ad volat altius qui modo quesieras. Si factum bene sit tale lumina [illegible] redibit. Et hec sunt [illegible] que vis [illegible] tabula probet.

[illegible]

1433 [illegible]

[illegible] et adde [illegible] horas ad horas [illegible] 19 hore [illegible] 193 clocham et 208 [illegible] et proveniunt 1001 clocham [illegible] 1080 [illegible] 19 hore et 1001 [illegible] 1433 [illegible]

[illegible] 19 hore [illegible] 28 [illegible] 1001 [illegible]

[illegible] 28 [illegible]

[illegible]

[illegible] est [illegible]

Quando igitur scire volueris in-
clinationem 2am 3am 4am tempus pro-
gressive inclinationis in qua
querebatur tunc accipe semper
horas et clochias in prima
linea prime tabule adde
de ipsa semper horas et cla-
chias ipsius inclinationis pro-
gressive eadem quod supra est
demonstratum et illud quod ad primam
inclinationem. Si autem 2am vel 3am
vel 4am invenire volueris sic
operaberis: accipe semper horas
et clochias 2e vel 3e vel 4e
linee prime tabule adde
eas ad semper horas et clochias
ipsius inclinationis progressive
et sic 2am habebis tabulam.
Scias Coniunctio media quoniam
inclinationis future ad unum
tempus [illegible] infallibiliter
pervenit. Hic autem docet in-
venire 2am 3am vel
[illegible] horas [illegible]
[illegible] 13 [illegible]
[illegible] quo [illegible]
[illegible] in [illegible]
[illegible] 2a quo quod [illegible]
[illegible] 3a vel 4a [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] Coniunctio media
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible] ad inclinationem progressive
[illegible]
que sunt in prima linea prime tabule
Scias Coniunctio media que est
1493 clochiarum horarum [illegible]
[illegible] Si tu volueris [illegible]
[illegible] 2am inclinationem
[illegible]
[illegible] addit horas semper
et clochias ad inclinationem progressive
[illegible] per [illegible]
tabule [illegible]
[illegible] Si tu 3am [illegible]
[illegible]
[illegible] 3e linee tempus
[illegible]
[illegible]
[illegible]
[illegible] Et clochias
[illegible]
1080 [illegible] 1080
[illegible]
[illegible] horas Et
[illegible] 1080 clochias [illegible]
[illegible]
[illegible]
[illegible]
[illegible] 24 [illegible] 24
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 14 3 [illegible]
[illegible]
[illegible]
[illegible]
[illegible] tabule
Scias Coniunctio media Et
[illegible]
[illegible] 2a [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 1493
[illegible]
[illegible]
[illegible]

	Elo^m	Elochim		hac	fare		Elo^m	Elochim		hac	fare	
1	Novembr	3 Con	9 m	1 go	12 me	1 a	Novembr	1 gar	8 ha	2 be	11 ly	7 cu
2	Decembr	6 frag	0 zu	7 ee	1 ar	3 tu	Decembr	4 dat	1 gu	7 et	22 y	3 cus
3	Januari^s	9 iax	1 a	2 bar	14 o	4 det	Januarius	1 au	6 fa	8 hex	9 faz	2 bus
4	Febarius	2 brux	10 az	1 ee	12 bo	6 bufex	Februarius	8 her	6 fa	0 zat	21 xi	1 gut
5	Marcius	7 e	2 ba	1 gau	17 pu	1 ges	Marcius	7 e	7 e	3 cus	8 hu	6 falt
6	Aprilis	8 bor	3 ci	4 da	4 de	2 bes	Aprilis	2 bar	4 da	6 fex	19 tau	4 dalt
7	Maius	1 ac	7 e	1 a	14 in	3 cux	Maius	9 iau	2 ba	9 iar	6 fue	3 cos
8	Junius	4 dar	4 da	9 ies	7 ex	7 est	Junius	6 fa	3 ce	1 a	15 pix	1 ag
9	Julius	1 ceri	7 e	6 ffa	18 pr	6 for	Julius	3 cau	2 ba	4 dex	7 e	1 gax
10	Augustus	0 zor	1 gi	3 ci	1 gre	1 aut	Augustus	0 zi	1 a	1 ga	16 qui	7 cus
11	Septemb'	3 car	8 ha	0 zu	20 ur	2 bau	Septemb'	1 cou	9 i	4 iun	3 cu	4 des
12	Octob'	6 frau	1 ga	8 ha	8 her	4 dut	October	4 dax	0 zi	2 be	17 pu	2 bes
13	Decemb'	0 iun	8 hy	7 e	21 xu	7 cut	Decemb'	1 ax	4 i	4 da	2 buge	1 aut

Sex [illegible] molat ha [illegible] p[re]sentit
[illegible]

[illegible] prima p[re]sentit [illegible] malat
[illegible]

[illegible]

Similiter qui scire volunt
primam inolationem in media [illegible]
vel 2am vel 3am. Ceterum [illegible]
inolationis [illegible]
a quo quelibet addat ad ipam
ferias horas et [illegible]
que sunt supra lineam 2e tabule
[illegible] in mediate
[illegible] volunt vel ea que in
secunda linea sunt 2m [illegible]
lunt vel ea que sunt in 3a
linea si 3m [illegible] volunt.
Et per inolationem [illegible]
infallibiliter apparebit. Et
hoc per [illegible] subscriptos.
[illegible] quedam sunt in tabula
[illegible] facta [illegible]
[illegible]

Alia autem quedam sunt [illegible] tabula
facta per [illegible]
[illegible]

[illegible]

[illegible]

[illegible]

M invenietur oppositio
...quando pl[ane]ta est in
remotissima distantia
a sole et perfectissime ro-
tunditatis tunc ... fu-
...are ... ad ...
... effert.
Si autem pre valuit ... in luna

semissa [illegible] tamquam
esset prima quod divisa
Cum autem ad adinvenien-
dum haioax tezax ad probandum
ad barhabtex drfus
ut patet in sequenti figura

693	180	286	76
faicax	Bolzax	durhasex	Effert
891	190	288	26
Haioax	tezax	barhabtex	Drfus
Defuturis		Depreteritis	

[illegible]

Si autem scire volueris tisri
anni preteriti ut cum aliis
alterius anni Ecce per ut scias
tisri immediate sequentis
Cum duo [illegible] quum ad
4or ferias 8 horas et 8 a 6
clachim [illegible] Unde si nosse
tisri alicuius anni possis By
binas ferias addis 8 pl

horas Cum octingentis
clachim septuaginta
Si autem vis habere preteritum
molath tisri preteriti ani
ut quod preteritum molath
sit dum quum Cum ad
et ad ferias duas fe-
rias ad horas 17 et
ad clachim 204 clo-
chim [illegible] Sed si pre-
teritum prius vis reperire
horas ter quinas atque
denas ferias Et clachim
sit [illegible] 4or adque duodena
Sed in duo [illegible]
[illegible]
ponitur in ultimo [illegible]
[illegible] tabule barhabe
[illegible]

[illegible]

[illegible]

[illegible] in pancdis [illegible] [illegible]
[illegible] aptez [illegible]
[illegible] [illegible]
Tunc [illegible] Si autem [illegible]
[illegible] est 2a [illegible] celi [illegible]
[illegible] hoc [illegible] quo ad [illegible]
[illegible] in [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]
[illegible] in qua [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] pro [illegible]
adde [illegible] in [illegible]
[illegible] 17 horas et 264
[illegible] que [illegible]
[illegible] 2e tabule [illegible]
[illegible] [illegible] que [illegible] in
12a [illegible] tabule [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] quo ad [illegible]
[illegible] [illegible]
[illegible] [illegible] Si [illegible]
[illegible] [illegible] [illegible]
adde ea que in [illegible] in
ultimo ordine huius tabule
[illegible] [illegible] [illegible]
[illegible] 1 feriam 2 horas 4 91 [illegible]
[illegible] ultimas [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] tysri
capiatur. Si feriam [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]
Hoc quod [illegible]
[illegible] [illegible] quo ad [illegible]
[illegible] quo [illegible]
[illegible] [illegible]
[illegible] [illegible]

Si autem scire volueris quo
tysri presentis anni vel cuius
[illegible] alterius [illegible]
et tysri anni [illegible] anni
in [illegible] [illegible] [illegible] 3a
4a [illegible] [illegible] ad 19 an-
nos. [illegible] [illegible] tysri
[illegible] cycli [illegible] in
quo [illegible] [illegible]
[illegible] [illegible] tysri [illegible]

[illegible] cyclo [illegible]
adde ut fere hoc et clo
chim que sunt in [illegible] linea
tabule subscripte ubi [illegible]
[illegible] [illegible] tabula
[illegible] [illegible] [illegible]
[illegible] et adde sicut [illegible]
et tunc resultabit tysri
anni in [illegible] [illegible]
eiusdem [illegible].
Si autem aliquis voluerit
habere tysri 2i 3i et 4ti an-
nis eiusdem [illegible]
id est cycli lunaris apud iudeos
[illegible] addit ea que [illegible]
[illegible] in 2a 3a 4ta linea
[illegible] ubi 2o vel 3a vel
4or [illegible] [illegible] Colla
teralis vero tabula est
[illegible] [illegible] [illegible]
[illegible] est [illegible]
tysri 1 [illegible] [illegible]
anni huius [illegible]
cycli [illegible] [illegible]
et hoc per [illegible]
[illegible] horas et clochim
qui in linea [illegible]
[illegible] anni tysri
[illegible] volueris adde ad
ferias horas et clochim
que in linea [illegible]

	Aureus numerus	Elochim			hal	fine	
Octob	1	6 ffon	7 gi	0 holt	8 hum	4 delt	Oc
	2	2 bar	7 gu	6 fex	17 ro	1 ax	
Em	3	1 au	8 he	1 a	15 pu	7 gu	Em
	4	7 Gar	5 e	01 zia	23 zol	4 &	
	5	3 Col	5 e	8 har	8 ha	2 bet	
Em	6	2 bar	6 fi	3 ca	6 flo	1 ay	Em
	7	8 hox	5 e	1 a	15 pm	5 eb	
Em	8	7 gar	4 di	7 ga	12 ma	4 des	Em
	9	3 Cau	4 di	5 e	21 xi	1 ab	
	10	9 ja	3 ar	3 ar	6 fia	6 fur	
Em	11	8 har	2 ba	9 i	3 ci	5 eb	Em
	12	4 dar	2 bi	7 gax	12 mm	2 bus	
	13	0 zau	2 ba	5 e	21 xo	6 fex	
Em	14	9 jau	2 bus	0 zu	19 to	5 ex	Em
	15	5 E	0 zu	9 i	3 ar	3 ar	
	16	1 Az	0 za	7 gax	12 mm	7 gax	
Em	17	0 zo	1 a	2 bax	10 ku	6 fex	Em
	18	6 fer	0 zu	0 zi	19 tor	3 cax	
Em	19	5 ex	9 i	5 cus	16 qu	2 bus	Em

Aureus numerus	Elochim			hal	fine
1	4 Dor	0 zi	2 be	15 pu	2 bet
2	8 he	0 zi	4 di	6 fax	5 eu
3	9 jax	9 i	8 ha	8 hol	6 fer
4	3 Ca	2 bu	0 zet	0 zau	2 bus
5	7 Kar	2 b	2 ba	15 pou	4 del
6	8 hax	1 a	7 gu	17 nib	5 eb
7	2 bo	2 ba	9 i	8 hax	11 an
8	3 Cin	3 ci	3 ca	11 lor	2 bau
9	7 Gau	3 ci	5 eb	2 brux	5 eb
10	1 au	4 di	7 ga	17 vo	7 gax
11	2 Bax	5 e	1 az	20 unx	1 au
12	6 fax	5 e	3 cat	11 lo	4 dx
13	0 zar	6 fa	5 e	2 bu	7 gur
14	1 ax	5 e	01 ziar	4 di	1 ar
15	5 Ge	7 ga	1 ax	20 ur	3 cax
16	9 ja	7 ga	3 cir	11 lor	6 fax
17	0 zor	7 [illegible]	8 [illegible]	13 [illegible]ac	7 gax
18	4 di	7 ga	01 zua	4 dor	3 cax
19	5 Ge	8 ha	4 di	7 gol	4 du

7 gi 8 ha

habent. Et si redibit ...
... tu[n]c
bene est operatum. Ita
regula sit talis ut tabula
collateralis ... probat
... tabula ...

[illegible]

[illegible]

[illegible]

Et nunc dicam per tabulam quod in primo
Octobris anno domini 1433
fuit 2ª feria 19 littera loci
clavium. Ergo cum sit tantum ex-
cessus inter primum annum in
uno sitibus sic quod per
lineam primae tabulae sub primo
Gerolt Gumbelt cum ad primam
partem et prouenit eadem
tempore octobris anno domini
1434 feria 1ª et 2 littera
14 clavium. Tum autem
perlevari volumus quod per lineam
2ᵉ tabulae sub dicta 21 littera
prouenit in primo octobris
futura rotis. Sequitur textus
petita

Viso quo ex tysri anni
posit tysri per dictam nouem
annos aliquibus valeatur
venire. Tunc videndum
est quo pluribus uel termino mo-
nendum dictum annos poterit
tysri inuenire. Si autem
quis scire voluerit per no-
uendecim annos tysri
posti praegnanti occurrit ea
quae sunt in prima linea ta-
bulae subscripta 2ᵉ in
venit tysri 2ⁱ cycli
sub sequentibus rotis. Sic ex
dictis sic modo quanto
ad tabulam collateralem
est operandum. Si autem quis
scire voluerit tysri per 2m

vel 4ᵗᵃ rotis. Tunc attingi-
tur quae ponitur in 2ª 3ª
uel 4ᵗᵃ linea correspondente
te et operare eodem modo ut
predictum est. Ut igitur illud
magis uideri cause
dicitur accipiatur hic infra
subscriptus in quibus
sunt dictam signa uel lineae
designantes dictam inuesti-
gandi. 1. cyclos inueni-
endi tam posit quam
futuros. Futuros quo ad
primam tabulam petitus quam
ad tabulam secundam
sic est littera per quam
Nam autem debet
inueniri in temporibus pre-
teritos ad istos cyclos
et diuidit in duas partes
in pª ostendit quo passimus
inuenire vocabulum per
dictam nouem annos et per
has dictam nouem rotis usque
ad dictam dictam nouem 2ª in
2ª parte docet hoc idem quo
passimus inuenire nouem annos
a primis nouem dictum cyclos
usque ad trauentes cyclos
2ª per illa primum videndum 3
exemplo ad primam partem docet et
uiso quo ex tysri ad posit
tysri 1 in primo per dictam no-
uem annos aliquibus poterit
inuenire per quam videndum est quo
pluribus uel termino rotis usque etiam
Secundum prius est auctor dicit
[illegible]

cicli	anni	Electum	hor.	fr.		
unitas cicli	19	7 Gx	9 z	7 cus	16 qui	2 bus
2 cicli	38	0 zax	1 a	1 as	9 in	7 cu
3 cicli	57	7 E	0 zo	1 gst	1 ax	1 at
4 cicli	76	0 zar	2 bu	2 ker	8 sir	3 cus
5 cicli	95	7 Gx	1 a	2 ke	10 bzo	6 fer
6 cicli	114	0 zin	3 ar	3 ar	3 cit	2 bus
7 cicli	133	7 E	2 ba	9 7	19 tox	4 dut
8 cicli	152	0 zor	4 di	4 dyo	12 mi	a ga
9 cicli	171	7 E	3 ct	01 za	8 dm	3 co
10 cicli	190	0 zayo	7 e	7 e	21 pa	7 cut

cicli	anni	Electum	hor.	fr.		
unitas cicli	19	7 Gx	8 ga	4 da	1 wol	8 du
2 cicli	38	0 zcv	9 ga	9 it	18 dd	1 out
3 cicli	57	7 Ba	1 gr	3 ca	22 y	7 cut
4 cicli	76	0 zor	6 fr	8 ba	7 E	3 our
5 cicli	95	7 Eu	6 fur	2 kas	13 uo	1 gas
6 cicli	114	0 zo	7 e	1 gayo	20 um	8 dx
7 cicli	133	7 Gx	7 e	1 a	8 dim	2 bur
8 cicli	152	0 zcr	8 da	6 fx	11 by	6 fex
9 cicli	171	7 E	4 &	0 zi	19 box	3 cas
10 cicli	190	0 za	3 ct	7 e	2 brayo	1 dut

[illegible]

[illegible]

[illegible]	Electum		Hor.		Sep.
10	0 3ax	5 c	5 c	21 xo	5 aut
20	0 3am	2 bus	9 zeb	19 bou	8 [illegible]
30	0 3az	7 gn	5 c	15 qua[illegible]	3 [illegible]
40	0 3am	4 da	0 zi	19 oz	2 b[illegible]
50	0 3axo	9 i	5 cus	11 lux	1 au
60	0 3o	6 for	0 zim	9 ja	a gax
70	0 3ex	1 a	6 fa	6 fur	6 fur
80	0 3au	8 ba	0 zi	4 dax	5 [illegible]s
90	0 3au	3 cu	6 fax	1 au	4 box
100	0 zu	0 zi	1 a	0 zam	2 bus
200	0 3axo	5 c	6 fa	20 uxo	1 at
300	0 3or	2 ba	1 a	18 ful	a gau

Defectus

[illegible]	Electum		Hor.		Sep.
10	0 3im	3 ta	5 c	[illegible] brax	1 aut
20	0 3or	6 fa	0 1 zi aut	4 dom	2 bus
30	0 3axo	1 a	7 c	7 gur	3 au
40	0 3o	4 da	0 1 zi oz	9 iu	2 dob
50	0 3axo	9 i	5 dc	12 cax	5 cu
60	0 3or	2 ba	0 1 zi a	14 oz	6 fuit
70	0 3au	7 ga	5 du	1a uo	a gaut
80	0 zu	0 za	0 1 zi oz	19 bo	1 aut
90	0 3axo	5 c	4 dax	22 y	2 bus
100	0 za	8 ba	4 3	0 3au	8 dob
200	0 3o	3 cu	4 dux	3 ca	5 cxo
300	0 3au	6 fa	9 7	5 cu	6 fax

Applico

Nunc videndum est quo modo ex alio progressu tysri anni primi cuiuslibet messerium cognoscatur tysri 2i 3i 4ti et aliis messerium. Primo quod ex progressu inveniatur tysri alicuius messerium quo dicti docent cyclos et vigenti 3 tysri. Si vero datur tysri diem maximi et minimi messerium aut ad cognoscendum de ea que sit [illegible] luna 2a 3a aut 4ta. [illegible] 2m

vigenarium ordinum quo
addit in quo sunt de sex-
ties. Et ideo recipit ter p-
dictas sic ut prius sic-
patet in tabula super-
scripta. Item [illegible] pa-
tet quod possumus invenire
annum bissextum per 28 ciclos
usque ad tricentos ciclos.
Et sunt summa [illegible]
Si quis vult scire annum bissextum
per decem 28 annorum ciclos
ciclos aut per vigenario solis
bissextum anni [illegible] quos oportet
addat ea que sunt in prima
linea huius tabule [illegible]
in bissextum prius [illegible]. Et
si vult scire per [illegible] 28
annorum ciclos tunc addat
ea que sunt in 2° ordine
linearum. Si autem [illegible]
28 annorum ciclos tunc ad
dicta que sunt in 3° [illegible] 316
usque ad finem tabule [illegible]
[illegible]. Ad [illegible]
ad addat ea que sunt in
tabula collaterali scilicet in
illa 2 [illegible] aut
[illegible] ut
dictum est [illegible]. Item [illegible]
huius tabule scilicet 3 [illegible]
aut. Et 2 [illegible]
[illegible] aut. Ideo [illegible]
[illegible] aliquod
[illegible]
[illegible]
[illegible]. Et ad [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

tercio prevolutum. Capitulum sextum
Quia dictum est quod quo-
libet revolutio sit in-
veniendo aliquo pro
cognito. Consequenter dicendum
est quo qualibet revolutio sit
invenienda et quibus punctis
et minutis sit et de quorundam
eventu cum subtilitate
tractandum est. Si ergo volumus
quando annum prevolutionis [illegible]
primo sciendum quod 2am [illegible]
primi revolutio mundi scilicet
rebus fuit in octobri feria
2a hora quinta [illegible]
204 [illegible]. Altera autem feria
primi revolutio hora quinta
[illegible] simul
[illegible] recepto. Cum
[illegible] anni solis
elapsi ab initio mundi usque
ad incarnationem Christi scilicet
3960 cum annis domini 1344
in ianuario. Et post ea [illegible]
[illegible] erunt 7104
anni dividantur per 19 et
erit [illegible] 268 tot
[illegible] tunc [illegible]

ut ut reciperent supplebat
erunt autem dies in
messevim 268 Cum autem
ex predictis pro illo anno
quattuor debent multiplicari
dies dies horas 16 clachim
797 Et tunc totum diviso
facta remanent in supplemento
6 dies 19 hore 100
clachim Cum facta ista
6 dies addimus ad feriam
et ab initio [illegible] 19 hore
ad horas in initio [illegible]
et ad 4 horas Dabit
100 clachim ad 204
clachim in initio [illegible]
Et resultabit novilunium
[illegible] 69 messevim [illegible]
Iste pragmata consulens
in quo anno [illegible]
[illegible] [illegible] Et tunc
que [illegible] illo anno
invenitur in tabula 19 annis
[illegible]
[illegible] addere [illegible]
[illegible]
dies diebus horas
horis et clachim addo

clachim Et sic probat publi
novilunium [illegible]
[illegible] in quo [illegible]
[illegible] in 1o [illegible] 26
[illegible] mense Cum autem
[illegible] debemus in
tabula [illegible] in [illegible]
[illegible] 19 Cum [illegible]
[illegible] Et in [illegible]
novilunium [illegible] in
[illegible] ad [illegible] dies
diebus horas horis
clachim ad clachim
Et sic patet diligenter
considerandi quo novi
lunium sit [illegible] quod
[illegible] [illegible]
[illegible] 27 [illegible]
[illegible] quo auctor [illegible]
[illegible] novilunium [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

a p[illegible] 6 et remanebunt
in residuo 6 dies [illegible] 20
[illegible] cyclos [illegible] 264 [illegible]
p 16 que [illegible] 24 [illegible]
[illegible] quibus [illegible] [illegible]
[illegible] [illegible] tot hore
4303 [illegible] hore [illegible]
[illegible] p 24 [illegible] potentes
[illegible] [illegible] 1234
9 et remanebunt [illegible] 8 hore
[illegible] [illegible] [illegible]
[illegible] addit ad [illegible]
6 dies et erunt 187 [illegible]
[illegible] [illegible] [illegible]
6 [illegible] Item [illegible] cy-
clos [illegible] 264 [illegible] p
797 [illegible] [illegible]
[illegible] [illegible] ut tot [illegible]
[illegible] 160077 [illegible]
[illegible] p 1080 [illegible] et
[illegible] [illegible] 434
8 [illegible] est [illegible] hore et in
residuo remanebunt
217 [illegible] [illegible]
[illegible] [illegible] p 24 [illegible]
[illegible] [illegible] remanent 4
hore qui 4or hore ad-
dunt ad 8 horas [illegible]
[illegible] et [illegible]
12 hore et in uno [illegible]
[illegible] 6 qui [illegible]
[illegible] [illegible] ad [illegible]
6 dies et erunt 12 dies
[illegible] [illegible] [illegible]
[illegible] [illegible] et [illegible]
[illegible] [illegible]
[illegible] 64 cyclis [illegible]
[illegible] [illegible] dies 12 hore
217 [illegible] [illegible] ad
[illegible] ad [illegible] [illegible]
et [illegible] [illegible]
[illegible] [illegible] 297
[illegible] [illegible]
[illegible] [illegible] [illegible]
269 [illegible]
[illegible] 1 hora 1a [illegible]
[illegible] 419 [illegible]

[illegible] [illegible] seculi [illegible] 1123
[illegible] [illegible] 1363 [illegible]
[illegible] 12 [illegible] [illegible]
[illegible] [illegible]
[illegible] addi [illegible] [illegible]
[illegible] in 12 [illegible]
[illegible] 14 [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]
in anno domini 1363 [illegible]
3 hora 6 [illegible] 063
[illegible] erit [illegible] [illegible]
[illegible] 1032 [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
Pro memoria [illegible]
[illegible] est [illegible]
practica generalis ad [illegible]
[illegible] sit [illegible]
[illegible] [illegible]
est una regula generalis [illegible]
[illegible]
[illegible]
seculi [illegible] 2 hora [illegible]
[illegible] 204 [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] addi [illegible] seculi [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] anno domini 1433
[illegible]
1143 [illegible]
[illegible] p 19 [illegible] potentes [illegible]
[illegible]
[illegible]
[illegible]
[illegible] 119 [illegible]

[illegible] Deinde [illegible] illi [illegible] per 4 [illegible] qui multiplicati per quatuor [illegible] et per 16 horas [illegible] per 791 [illegible] [illegible] quare [illegible] intelligitur in hac [illegible] in ultima [illegible] tabule [illegible] Et [illegible] quare [illegible] per 1080 [illegible] Et in [illegible] quare [illegible] Et [illegible] 1080 [illegible] 24 [illegible]

[illegible] 24 [illegible] 1080 [illegible] per 10 [illegible] per 1100 [illegible] 1123 [illegible] 1194 [illegible] per 19 [illegible] 213 [illegible] 1193 [illegible] 148 [illegible]

[illegible] 2 13 [illegible] 16 [illegible] qui [illegible] tabule [illegible] 4 3 6 8 [illegible] horis [illegible] 2 1 3 [illegible] 14 [illegible] qui [illegible] tabule [illegible] 1 6 2 4 3 7 [illegible] 1 0 8 0 [illegible] 1 7 0 [illegible] 4 0 7 1 8 [illegible] 3 7 [illegible] 24 horis [illegible] 18 [illegible] 1 4 6 [illegible] 1 3 7 [illegible] 1 3 7 [illegible] 2 0 4 [illegible]

[illegible] 24 [illegible] 24 [illegible] 1 0 8 0 [illegible] 6 3 4 [illegible] 1 4 3 7 [illegible] 19 [illegible] tabule [illegible] 1 4 3 7 [illegible] hora 1 9 [illegible] Octobris [illegible] tabularum [illegible]

in inventione indicis. Si autem uo-
lueris [illegible] quos [illegible]
facto repulsabit [illegible]
hyemis [illegible] 7 c. 18 horam [illegible]
[illegible] Si autem [illegible] naturalis
[illegible] [illegible] potes [illegible]
[illegible] computi [illegible]
et aliorum [illegible] [illegible]
[illegible] [illegible] [illegible]
ualet [illegible] illa [illegible]
[illegible] Sed [illegible]
[illegible] [illegible] [illegible]
[illegible] Sed [illegible] nullam
[illegible] [illegible] facit. Et [illegible]
[illegible] [illegible] autor [illegible]
[illegible] Sed [illegible]

Consequenter docendum
ad habendum concordiam
inter inquisitionem nouilunii
quo ad nos et quo ad
alios. Quia in horis
et in diebus nulla est
differentia. Sed in primo climatum
quia nos dimidium horam
in 60 minuta [illegible] et in
1 a 8 c vel puncta. Quod
semper unum minutum correspondet
18 climatum etc. Ex quo
patet quod practicans algorismum
per et nostro nouilunio
inuenire nouilunium in proporcione
diuidendo uel multiplicando
in 18 climatum. Sed 18

climatum primo [illegible] recip-
iendo. Sed in hoc ad nulla est
differentia nisi in multiplicatione
Quia aliqua climata
ducta sunt super mediam
noctem aliqua super me-
diem. Sed autem quando sic
ducta est super horam nos
primam 6 horas computando
usque ad mediam noctem
et 6 post mediam noctem.
Et sic per concordia inter
nos et alios diligenter
conueniunt. Et hoc est quod
promisit autor in primo capitulo
libelli. Sed dicit [illegible]
[illegible] primo [illegible]
[illegible] [illegible] [illegible]
[illegible] quia autor [illegible]
concordantiam inter nos et
Iudeos quia ad [illegible]
[illegible] [illegible] Est [illegible]
[illegible] [illegible] inter nos
et Iudeos [illegible] nouilunium
nullam est [illegible] discordantia [illegible]
[illegible] in climatum in diebus
[illegible] et in horis nulla est
[illegible] [illegible] Sed primo
[illegible] autor [illegible] [illegible]
[illegible] concordiam inter nostros
Iudeos [illegible] [illegible]
Et [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] apud Iudeos [illegible]
apud nos. Sed [illegible] quia [illegible]

[illegible]

[illegible]

Expliciunt collata
Judaya per manus
Magri Nicolay de Gra
bostow finita sub anno
domini Millessimo quadringentesimo tri
cessimo tercio In vigilia
Sancti Nicolay Episco
pi et xpo die sabbati
in stubella eiusdem

Nota circa efficientem istius libri fuit Johannes de Sacrobusto. Subiectum istius libri est tempus secundum motum solis et lune consideratum [illegible] et iste liber intitulatur Compotus philosophicus [illegible] scientia tempus distinctum [illegible] [illegible] [illegible]

Compotus est scientia considerans tempora ex lune et solis motibus et eorum ad invicem variatione distincta. Circa cuius studia duo laudanda magis quorum studiosos vero et deos illuminant et temporum mors humane fragilitati famulatum efficiunt. Scientia itaque vero de motibus universorum corporum supercelestium curans tempora mensurata ac distincta secundum motum istorum duorum planetarum solum intendit. Unde hanc autem scientiam esse sub alternatam ab astronomia constat que de motibus astrorum [illegible]. Hec vero tempus discretione secundum motum solis et lune tempus sufficit. Unde quia et astronomus de tempus [illegible] determinat sub [illegible] astrorum motus, quis cum motus astrorum et considerat. Compotiste cum temporum distinctione. Unde minus artifico tota illius capacitas in istorum planetarum motibus minutissime consideratam. Quo grossa in subtilitate per tempus spatia aut maiora aut minora et omnia sub vulgaribus sufficiat comprehendi. Sapit autem.

Tempus igitur est effectus corporum supercelestium mobilium. Ex quo quantitatis genere formam imminent qualitatis alterationum particeps. Tempus ista autem partes temporis quedam die maiores, quedam die minores dicuntur. Partes temporis die maioris sunt septimana mensis annus lustrum indictio seculum evum. De quibus singulis secundum ordinem est dicendum. Partes temporis minoris sunt quadrans hora punctus momentum athomus uncia.

Quadrans est quarta pars diei naturalis scilicet 6 horarum integram complectens. Hora est 24 pars diei naturalis. Horarum vero alia naturalis alia equinoctialis. Naturalis est spatium temporis in quo medietas signi [illegible] oritur. Equinoctialis vero est [illegible] equinoctialis super orizontem ascensio. [illegible] que illarum naturalis nisi distinctionem [illegible] compotiste appellari [illegible] [illegible] computatione est quarta pars hore [illegible] lunari vero quinta

Iste liber subdividitur in 4or tractatus. In primo docet de [illegible] tempus. In 2o tractat de cyclo solari et [illegible] 3o de [illegible] [illegible] [illegible] tractatus et [illegible] [illegible] Compotus est scientia etc. [illegible] [illegible] tractat de [illegible] lune [illegible] [illegible] Tempus igitur est effectus [illegible]

[illegible] est 10 partes puncti punctum
partes momenti [illegible] vero est
[illegible] partes momenti athomus est
40 partes uncie a pronomine
[illegible] distinctio partis usque ad
minima cuiusque integri un-
-formis est factio. Cum igitur
in ipsa et temporis per eius divisiones
computacio consistat, huius
sic completo. Computus
nomine computus accipitur pro
quod computare docet [illegible]
[illegible] et subtilitatem [illegible] docet.

Dies autem alius naturalis
alius artificialis. Naturalis
est spacium 24 ho-
-rarum a quo cursus quarta partem
meridianam vel occasum [illegible]
[illegible] completurus [illegible]
i. diei et noctis completa spa-
cium. Unde dies naturalis computatus
est secundum Romanos a media
nocte. [illegible] Arabes a mane
usque ad mane. [illegible] Dies vero artificialis
est spacium temporis ab ortu solis
usque ad eius occasum. Unde ar-
-tificialis dies est lux solis
super terram. Nox autem est um-
-bra terre in solis oppositum
[illegible] Nox [illegible]
[illegible] noctibus [illegible]

Horarum igitur quedam
naturales [illegible]
[illegible]

cum diem naturalem a media noc-
te incipiunt et [illegible]
[illegible] in medio cum noc-
te clamor factus est. [illegible]
ipse deus est [illegible] ut
legitur quod deus fuisset natus
in medio noctis [illegible]
Et quia sol qui est causa
diei [illegible]
in media nocte incipit [illegible]
[illegible] astronomi
illo puncto. Naturalis vero [illegible]
[illegible] qui dicunt solem fuisse
factum in meridie [illegible]
[illegible] diem [illegible]
et [illegible] intendentes
illi auctoritati. Secundum fuit
est [illegible] a mane dies [illegible]
Secundum autem [illegible] gentes
sunt vulgus diem [illegible]
ab ortu solis incipiunt
vel [illegible]. [illegible] sol
[illegible] nec [illegible]
dies incipit cum sol [illegible]
super nostrum orizontem. Est
[illegible] orizon [illegible]
[illegible]
[illegible] meridianus [illegible]
est quem sol a polo ad polum
[illegible] fuissent
dici media [illegible]
[illegible] dies naturalis in
medias 4or distinguuntur
quadras [illegible] prima est
[illegible] noctis [illegible]
[illegible] diei [illegible] est et

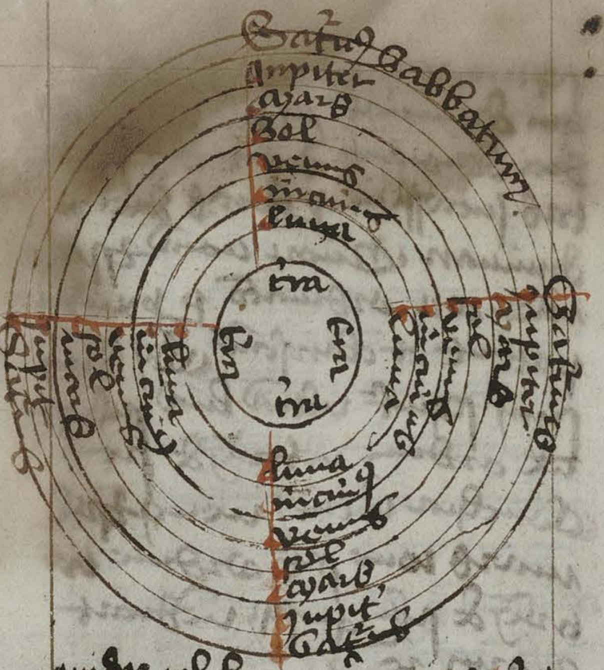
humida in qua pinguis maneat.
Hora vero ab hora tertia diei ne-
cessario usque ad nonam calida
est et sicca in qua co-
lera augmentatur. Tertia quadra
est [illegible] diei artificialis
usque ad horam primam noctis frigi-
da est et sicca in qua melan-
colia multiplicatur. Quarta
vero quadra est ab hora noc-
tis usque ad nonam [illegible] et est
frigida et humida in qua flegma
fluctuat [illegible]
[illegible] noctis
[illegible]
[illegible]
[illegible] noc-
tis [illegible]
[illegible] noctis [illegible]
horas [illegible]

Dies est artificialis
secundum astronomos
in 4or partes partitur
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] 4or hore
[illegible]
[illegible]
[illegible] septima
[illegible]
appellationes [illegible]
[illegible] quolibet dierum

proximam ab illo planeta
qui dominatur in prima hora illius
diei denotant. Dicunt enim plane-
tas successive per horas diei pre-
dominari. Quod vero compa-
ratur ordinatio per proxima
patent et clarescunt. Verbi gratia
primo sequitur ultra lunam sol est
[illegible] ordinem retrograde. Se-
cundum [illegible]
[illegible] post ordinem re-
trograde post quos [illegible]
horam etc.

Supponatur ergo quod saturnus
regat in prima hora diei
sabbati. Jupiter in 2a mars
in 3a sol in 4a venus in 5a mer-
curius in 6a luna in 7a. Et iterum
in 14 [illegible] in 21 jupiter
in 22 mars in 23 et in 24
[illegible] planete in die
illo [illegible] relinquitur quod sol
dominatur in prima hora diei solis
[illegible] a quo dicitur dies
solis. Et consimiliter computando
horas quod prima hora diei solis
[illegible] luna domi-
natur et inde accepit denominationem
[illegible]
[illegible]
[illegible]
[illegible] planeta
[illegible]
[illegible] in illa hora [illegible]
[illegible] jupiter [illegible]
[illegible] indifferentes

luna



quidem sol luna mercurius Venus
Jupiter et quia venus boni sunt
Saturnus mars quia maligni Sol
et mercurius ad bonum sunt mediocres
qualitates quidem corporis et com-
plexiones in quibus patet Saturnus
frigidus et siccus. Saturnus Jup. est
et humidus. Mars et sol sicci
sunt. Luna venus humidi
frigescunt. Mercurius alloquitur
esse. Humana quidem persona
pro sensibus et dies et naturam
fecit ad esse ita si pro forma
dispositionis accidentalis Beda
Richardus plures quarum non
vi qualis ab homine. Tunc
modo sol solus non sunt
homo hujusmodi et sol
naturales competens dicitur
in planetis quod ad proprios
seculos et dies septimane
nominavit aliquis secundum ordinem
eadem planeti dixerunt et singulis
diebus planeti sequitur

dies Jovis et alia dies martis
Dies Saturni autem hic est quod 24
hore dierum septem sunt planetis
in sua planeta non si quis
successive assumat simul 30
horis superioris et 24 hora
attribuendo singulis planetis
sequentibus. Sic i. per 24 per
aliquos dies denominatur ab
aliquo planeta dies per sequentem
denominatur a planeta 2o pro
Christiani et pro Beda
minus et alii viri religiosi
istas appellationes que age-
bantur omnes ... nolentes
sed numero dierum. Ideo septima-
ne dierum dominicam primam
feriam appellaverunt. Sed talis
dies natus est, quod talis dies
resurrexit talis dies mundo
fecit. Secundum vocant feriam
quod feriare idem quod celebrare
vel ab opere cessare. Et dies illa
que non dicitur dominica dies
dierum debemus cessare ab
opere manuali a peccati
vel feria dicit a feriendo
victimis. Quidam alii dicunt
quod festivis diebus et tunc
tunc ad tempus Salomonis
Secundum diem septimane
tertiam feriam vocant et diem
septimam vocavit ipsum nomen non
sabbati non quia non
sunt appellaverunt septi-
manam non feriam. Sabbatum
autem dicitur quia requies
quod tali die deus requievit

a bonum opere quod patraverat
tali die requievit in sepul
cro vel tali nomine vetuit
Iudei autem alias quas appella
verunt dierum septimane dierum
sive septimi sabbatum appel
laverunt sicut et nos dierum
dominicam primam sabbati vel
illud quod prima sabbati
surgens [illegible]
[illegible] sabbato [illegible]
que diximus dierum [illegible]
[illegible] sabbati appellaverunt
[illegible]

[illegible]

[illegible]

[illegible] septimane in hoc autem
erat iniecto [illegible] septime in
septimana [illegible] habent in septimane
quas appellaverunt [illegible]
[illegible] septimana sabbatum
[illegible]
[illegible] Septima
[illegible]
[illegible] Sabbatum
[illegible]

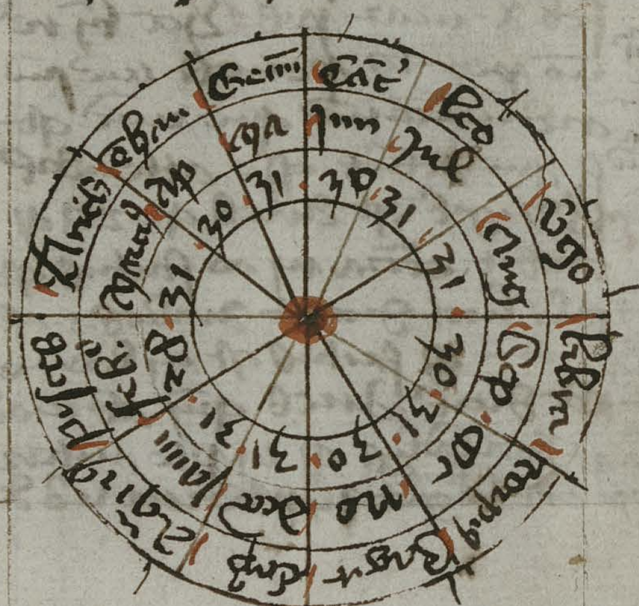
[illegible]

[illegible]

Solaris est spacium temporis quo
dum sol ingreditur idem signum
peragratis vel Macrobius
Sol in unoquoque xii signorum
integro mense moratur. Luna
ris est spacium quo luna cursum
suum complet ad plenum [illegible]
[illegible] et in perpetuis
[illegible] est spacium
[illegible] duorum kalendarum
nostris [illegible] et ab anni
quis auctoritate. Secundo
[illegible] Romulus
[illegible] distinxit menses et ad
hoc in anno suo x menses
[illegible] quod tantum tempus
sufficere [illegible]
[illegible] et quod [illegible]
[illegible] ab [illegible] anni
[illegible] post mortem [illegible]
[illegible] a morte
[illegible] ut [illegible]
[illegible] ab illo [illegible]
[illegible] Romani [illegible]
[illegible] Septembrem [illegible]
Aprilis apperiendo appellant
[illegible] et [illegible]
[illegible] et [illegible]
herbe et folia in arboribus
vel Aprilis quasi [illegible] dicitur
[illegible] quod est spuma
latine maris [illegible] venus
nasci fingitur et ipsa fuit
[illegible] Romule
et parte matris [illegible]
[illegible] maiores [illegible]
appellant [illegible] Iunius
iunioribus [illegible] post
[illegible] appellant [illegible]
[illegible] appellant ut quin
tilem sextilem septembrem
octobrem novembrem decem
brem vel quintilis [illegible]
[illegible] in [illegible]
[illegible] uno [illegible]
[illegible] suo [illegible]
[illegible] duos
addidit menses [illegible]
[illegible] et [illegible]
Et primum ut [illegible] an
[illegible] numerus [illegible]
plus antiquus [illegible]
duos Ianuarius dicitur a Ianua
est post [illegible]
[illegible] in [illegible]
[illegible] Vel dicitur
a [illegible] qui deus
[illegible] Et [illegible]
[illegible] duplicem [illegible]
[illegible]
et [illegible] Februarius
[illegible] id est [illegible]
[illegible] Ro
mani [illegible] plurimi
[illegible]
[illegible] Vel dicitur
[illegible]
[illegible] September dicitur
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] ...
[illegible]

dierum et aliud 29 tamen vnum ali(ud)
constabat ex 354 diebus quoniam
numerus dierum non sufficit tempori
solis. Quapropter Julius
Cesar vltimum apponens [illegible]
calendarii correctorem [illegible]
dies addidit et quadrantem
Vnde annus Julii constat ex 365
diebus et 6 horis superfluen-
tibus / hore assumpsit vt
probabit inferius. Kalendarium ex
Januario inchoauit in eodem [illegible]
omnia in festis. Cum ianuam [illegible]
veteres [illegible] alterius anni [illegible]
[illegible] tunc finis anni. Duos
[illegible] menses [illegible]
[illegible] distribuit [illegible] menses
[illegible] triginta vel quo[illegible]
[illegible] ad [illegible]
[illegible] imparitatem [illegible]
Januario premisset [illegible]
dies vnum. Vnde a februario subtra-
hebat dies [illegible] ad [illegible] decem
Januarii [illegible] februa-
rius in annis bisextilibus. Tempore
autem Julii Cesaris romani
[illegible] Julio mensem
pro [illegible] Julium
appellauerunt [illegible] in illo mense
Julius dicitur fuisse natus. Similiter
tempore Augusti mensem pro
[illegible] augustum ap-
pellabant. Sed tunc augustus
videns suum mensem esse bre-
uiorem mense Julii diem
vnum a februario sumpsit
et reddidit augusto. Vnde re-
mansit februarius 28 dierum
[illegible] accidit [illegible]
[illegible]

[illegible] menses simul [illegible]
Julius augustus et septembrem
Vnde igitur diem a septembri [illegible]
[illegible] ad octobrem addidit. Similiter
nouembri decembri attribuit
Hanc igitur ordinationem [illegible]
[illegible] dierum opinionem [illegible]
[illegible] fuit [illegible]
[illegible] adhuc [illegible]. Per quod
igitur mensem quilibet [illegible] incipit
et [illegible] et in qua [illegible]
[illegible] patet in [illegible]
[illegible] duo [illegible]
[illegible] ex [illegible]
[illegible] suum [illegible]
[illegible] duodecim [illegible]
[illegible] in [illegible]
[illegible] a ianuario
[illegible] menses [illegible] plures
[illegible] dies [illegible]
in [illegible]. Sed non [illegible]
[illegible] 30 [illegible]
vnde [illegible] februarius
[illegible] duobus [illegible]
quando mense sol [illegible]
nomen [illegible] et vt notabiles
[illegible]
ut [illegible] figura subicit



Est autem signum celi zodiaci porcio duodecima ab astronomis distincta circulus quidem signi est zodiaci porcio 30 [illegible] igitur sig[illegible] [illegible] et ordinacio in hiis per verba [illegible] Sunt autem tha[illegible] in gemini cancer leo virgo li[bra] [illegible] [illegible] [illegible] capri[cornus] amphora pisces [illegible]

Unde si in aliquo [illegible] signi sit sol [illegible] [illegible] ut [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] signi [illegible] [illegible] [illegible] [illegible] est sol Et ad resultat maior [illegible] [illegible] [illegible] [illegible] abiecit [illegible] et quot [illegible] fuerunt in [illegible] [illegible] 30 [illegible] [illegible] [illegible] signi est sol [illegible] signum [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cancer leo [illegible] [illegible] libra [illegible] [illegible] [illegible] [illegible] castor [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ordinacione que [illegible] est [illegible] que debet esse attendens [illegible] igitur est [illegible] [illegible] [illegible] [illegible] in [illegible] factus est sol [illegible] [illegible] [illegible] [illegible] [illegible] factus est in [illegible] Et dicitur [illegible] [illegible] [illegible] est [illegible] [illegible] in parte [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] est [illegible] sol exiens in illa parte zodiaci que aries dicitur in tempore yemali parum [illegible] [illegible] caloris et siccitatis in parte [illegible] [illegible] [illegible] [illegible] [illegible] estatem [illegible] [illegible] aries [illegible] tota yeme [illegible] [illegible] [illegible] lateri estatis vero dextro [illegible] quod sol tota yeme accedit ad emisperium [illegible] [illegible] estate vero ad superius [illegible] [illegible] latus mundi dextrum [illegible] [illegible] signum dicitur [illegible] [illegible] labores [illegible] [illegible] [illegible] [illegible] apparuit [illegible] [illegible] [illegible] [illegible] [illegible] ita sol [illegible] in eo [illegible] emisperio [illegible] [illegible] in qualitatibus [illegible] [illegible] [illegible] [illegible] Tercium signum [illegible] gemini [illegible] [illegible] [illegible] [illegible] sol [illegible] in caliditate et siccitate [illegible] [illegible] [illegible] gemini depinguntur duo [illegible] amplectentes se Ita quod sol [illegible] in illa parte celi [illegible] [illegible] [illegible] amplectitur se [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] signum dicitur cancer [illegible] [illegible] cancer [illegible] ad retrogradum Ita sol [illegible] in illa parte zodiaci recedit a [illegible] emisperio [illegible] signum illud dicitur [illegible] [illegible] [illegible] in eo [illegible] sol [illegible] estivale Quintum signum dicitur leo [illegible] [illegible] leo [illegible] ad ardentissime [illegible] implacabilis [illegible] Ita sol [illegible] in illa parte celi ardentissime [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in tempore caliditatis et siccitatis

sicut firmiter. Quintum signum leo quia sicut leo
aliter tunc moleste sunt peregrinaciones
Sed cum sunt dies caniculares quorum
inicia et terminaciones sunt hic usque Julius
audiunt sic inducunt caniculares. Septem-
ber gaudens dicta septem sine kalendas
Sextum signum dicitur virgo quia sicut virgo
sterilis est et nichil producit. Ita tempus
istud sterile dicitur et nichil producit sed pro-
ducta maturat. Septimum signum dicitur libra
quia tunc librantur dies arcubus et nox et dicitur
equinoccium autumpnale. Octavum signum
dicitur scorpius. Sicut enim scorpius a
cauda pungit et lingua lingit ita
matutina figura parat cautus tunc mordet.
Nonum signum dicitur sagittarius quia tunc
in nos emittuntur sagitte temporibus scilicet tem-
pestates ymbrium et grandinum et frigida.
Decimum signum capricornus dicitur quia quemad-
modum caper pascendo erigit se
ita sol tunc ab inferiori emisperio
ascendit versus nostrum emisperium. Vnde
hoc signum tropicum dicitur. Est enim tunc
solsticium yemale et tunc sol convertitur
ad nos. Residua signa vero scilicet aquarius
et pisces habundanciam aquarum denotant.
Dicitur autem aquarius ab aquosa qualitate
aeris. Pisces vero propterea quia tunc aque
fluminum [illegible] videntur. Et ideo tamen
dicunt quod hec signa a situ stellarum
figuras denominantur in aliis partibus
ad modum [illegible] animalium sunt denominantur.
Vnde Macrobius [illegible] in stellarum [illegible]
signorum [illegible] sortiunt ut dicit
[illegible] Et lucanus [illegible]
[illegible] caldeus [illegible] recepit [illegible]
[illegible] respiciens de lapso [illegible]
[illegible] vocabatur [illegible] vero
[illegible] signorum per x [illegible]
[illegible] patent [illegible] Signa
[illegible] a leo [illegible] tam [illegible]
[illegible] quod libra [illegible]

[illegible] Secundum quod [illegible] in quolibet mense
sunt tres denominaciones scilicet tres
dies principales a quibus [illegible] assumptis
distinccionibus [illegible] omnes alii dies mensis
denominantur scilicet kalende none et ydus. Dicuntur
autem kalende quasi colende. Primum enim diem mensis
[illegible] colebant ab antiquis in honorem Iu-
nonis. [illegible] vendicat [illegible]
[illegible] Vel dicuntur kalende a calo
quod est voco quia cum precedenti mense
[illegible] totum [illegible] in civitate
et clamabat quater calo vel pluries secundum
quod nundine per plures dies a sequenti
mense distabant. Et ideo in primo dicuntur
kalende. Vel kalende dicuntur a calo quod est
bonum [illegible] quod primo die cuiuslibet mensis solebant
a laicis mutuo quedam dona dari ut per
[illegible] mensium sequentium bonum omne eve-
niret eis. None vero dicuntur a non et
nullus quia nulli dei habent festum in
nonis. Vnde [illegible] nonarum tutela deo caret.
Vel dicuntur none quia none [illegible] statuta
renovata in singulis mensibus quondam apud
Romanos. Vel dicuntur none a nundinis
propterea quod cum dies solebant nundine do-
minari quot sunt dies none. Idus
vero dicuntur quasi divisiones. Dividunt enim
mensem in duas partes equales vel quia
tunc dividebantur nundine. Ab istis autem
diebus [illegible] assumptis omnibus aliis denotantur
omnes alii dies mensis. Ita quod maiori
[illegible] antecedit [illegible]
[illegible] minor. Sed ergo queritur quare
non dicitur secundo kalendas 2° nonas secundo ydus
[illegible] dies [illegible] dicitur a [illegible]
[illegible] debet dies ille [illegible] dicetur
[illegible] dicitur pridie kalendas i. pridie
[illegible] kalendas [illegible] octavo ydus
[illegible] octo [illegible] omnibus

Et quidam mensium plures habent nonas quidam
pauciores. Cum Marcius vel ac senas
reliqui dentur tantum duo nonas / Habito
autem quot dies mensis quilibet habeat sicut
patet ex predictis et quot nonas et quot
ydus, subtractis nonis et ydibus reliqui di-
es erunt kalende. Et notandum igitur quod in quo-
libet mense sunt duo dies qui dicuntur egi-
ptiaci vel egipciaci. Et dicuntur ab effectu
secundum opiniones quorundam si quis in
hiis diebus egrotaverit vel iter vel mensis
inchoaverit equali quia malum erit in opere a-
liquod operibus. Nam in hiis diebus propter malas
eorum constellaciones. Egipciaci quia ab
egipciis eduntur inventi propter plagas que
in hiis diebus illate fuerunt. Sanguis rane culices
musce / morientia pecora ulcera grando
locuste tenebre mors per primogenita lamen-
tacionis. Contingerunt ergo eis plura mala.
Et ita ex illis in quibus mense plagati fuerunt
sicut in calendario notatur. Vel dicuntur cum
in hiis diebus effundendo sanguinem sacrificabant
plutoni. Unde prohibitio est ne quis
in hiis diebus minuat ne videatur se-
sacrificare demonibusque. Observaciones tamen isto-
rum dierum inhibet sanctus Augustinus dicens.
Celas menses et dies egipciacos non
observamus. Et est in vulgo habetur suspe-
cti ad istos cognoscendos sciantur
isti versus. Armis gusfello ticalabshos
adamare / dallas lepa meon / scaus
gelidos lunare quo luda dunne lume
aaron bagus gsdrria. laudat ethio
laudat ei linquat ei tecesta geriatha
lumpsthardus. Et istorum versuum singula
tenue dictiones per ordinem sunt sin-
gulis mensibus sumpto inicio a Ianu-

ario. Et igitur primum diem egipciacum
cuiuslibet mensis invenire volueris
computentur tot dies a principio
mensis illius descendendo quota est
prima littera in ordine dictionis al-
phabeti et ubi terminatur talis computacio
ibi est dies egipciacus et quota
fuerit littera prima secunde sillabe eiusdem
dictionis talis hora illius diei
male ominatur. Ad habendum autem
alium diem eiusdem mensis computentur
tot dies a fine mensis eiusdem quota
est littera prima sequentis dictionis
in alphabeto eadem die est dies
egipciaca et quota fuerit prima
littera prime sillabe eiusdem dictionis
talis est hora eiusdem diei est suspecta
habet tamen predicte quod hic non computetur
prima littera in appendice scilicet de egipciacis
diebus.

Numerorum alius planetarum si-
gulorum discretus alius com-
munis planetarum cum quibus con-
stituunt sive perfectus nuncupatur.
Discretus quidem autem est spacium temporis
quo quilibet planetarum completum zodi-
acum peragrat. Est autem zodiacus fir-
mamenti cingulus / planetarum via
stellis fixis / signorum distinctio
sicut Saturnus ita breviter supremus est
signiferorum 30 annorum spacio circuitum
peragit. Cursum Iovis sidus temperatum
ubi 12 annis complet. Mars vero
tercius in ordine planetarum annis

duabus supradictis cum accedunt
eorum planetarum sol est in 365
diebus et quadrante zodiacum percur-
rit iuxta solem. Venus que et
lucifer et vesper dicitur duobus fere temporibus
ille quidem proprius meatus qui
modo ante solis ortum aliquando
post solis occasum splendescit.
Mercurius dum pari temporis spatio uno
uenus cum sole supradictorum circulum
aut fere [illegible] motus in circuitus
conficit quia duo a sole inferiori
spatio inter differre modicum. Luna
uero omnium novissima 27 diebus
et tercia parte diei supradictorum conficit
demum biduo sol commorata. Lune eo
[illegible] in firmamento apparent
ultra eum regionem ut temporibus stella-
rum mutacione succedit. Est enim
superiorum putatis non inferiorum
duorum cadencium quod medium est
uero Claudianus. Lunam publicet
sua globo quod septem annis ambit
et circuitus mortalia luna superat
astra que dicitur corporum sunt a [illegible]. Magnus
quidem annus est spatium temporis in quo
omnes planete simul cum stellis fixis
[illegible] ad locum suum in prima
mundi origine fuerunt [illegible]
quem quidem Josephus sic meminit
[illegible] ad vitam modicam et annorum
nostrorum breuitate vitam comparat [illegible]
[illegible] et sic
[illegible] etc.

quorum falsa putet [illegible] scripta
que [illegible] possit in 600 [illegible]
annis in [illegible] annis cum annorum esse magnus
completur annus. [illegible] maior consistit
sua qui magnus annus 17000 annorum
summa diffinit [illegible] tercius
magnum completur annus ut Plato testatur
magnus quem [illegible] annus [illegible]
[illegible] minus uno milia [illegible]
tue [illegible] tempore [illegible]
annus [illegible] 6300 solis [illegible]
[illegible] substancialibus [illegible]
ut [illegible] uidetur

Cum itaque multiplex sit annus se-
cretis obmissis a compotista due
specialiter intenduntur scilicet solaris et lunaris
scilicet de quolibet quibus est determinandum. Est
ergo annus solaris spacium temporis in quo sol
a quolibet punctorum quatuor zodiaci [illegible]
[illegible] scilicet sue [illegible] in eadem [illegible]
[illegible] totum zodiacum motu proprio re-
diens iterum ad eundem punctum. Unde apud
antiquos solebat depingi serpens de-
uorans caudam suam ut hic depingitur.



Cum quando revolucionibus in 365 diebus
et 6 horis et x dierum naturalis sit [illegible]
[illegible] in ipsis per singulas menses illius distinctus
quadrantatis propter diversitatem circuitus perspicue
maxime sicut in Almagesti distinctum
est a Ptolomeo. Item hoc est totum quod per partes
scioli computistarum sive [illegible] propter
diversitatem vulgaribus aliquibus insensibilibus operi
eius tamen [illegible] demonstravi. Est igitur motus
solis in die uno naturali 59 minutorum 8
secundorum et 11 terciorum 13 quartorum 10 quintorum et
7 [illegible] in sextis et [illegible] quinque minutorum
in fractionibus ad 6 pervenia et tanta suff-
iciat presentis. Cum quando motus sit zodia-
cus in 6a redactus tantum in tanto tempore
in parte tamen [illegible] appetit [illegible]
dierum septem horis non [illegible] in 2o [illegible]
[illegible] deficiet [illegible]. Cum scendit [illegible]
[illegible] superat [illegible] annus [illegible]
[illegible] superat [illegible] annum [illegible]
laris quantitas per 12 si dividatur continet
mensis solaris 30 dierum et 10 horarum et
9 minutorum 2 30 6 horarum. Dicitur autem
annus ab innovatione cunctorum vegetabi-
lium que tempore [illegible] naturali [illegible]
Secundum igitur [illegible] diversi diversa per
annum principia. Numa Pompeius annum
suum incipit a solsticio hyemali. [illegible]
[illegible] tunc ad nos incipit sol ascendere
[illegible]. Bruma enim [illegible]
[illegible] solis [illegible] capiunt [illegible]
hiemis et annum [illegible]. Romani vero annum
suum incipit a marcio mense equinoc-
tio vernale quia tunc omnia vivent et
florescunt. Hebrei vero theologus annum

a marcio [illegible] incipiat [illegible]
quod mundus factus sit 14o kalendas aprilis
[illegible] propter [illegible] annum in [illegible]
12o [illegible] marcii diebus [illegible]
[illegible] annum [illegible]
tunc [illegible] annus
[illegible] incipiendum esse. Arabes autem
incipiunt annum a solsticio estivali
quorum opinio est solem creatum fuisse
in leone. Greci vero incipiunt
annum suum a septembri in quo equinoctium
autumpnale quemadmodum predicit
Genesis illud Genesis: Terra protulit
herbam virentem et facientem fructum
suum iuxta genus suum. Sed autumpnus
est tempus fructiosus [illegible] alii
volunt annum suum incipere [illegible] a fin-
tibus annum suum [illegible]
[illegible] imitantur in [illegible]
[illegible] annum [illegible] et li-
[illegible] incipiunt a ianuario [illegible]
[illegible]
[illegible] magno a marcio [illegible]
[illegible] a septembri et
[illegible] embolismos incipiunt
[illegible] in ianuario [illegible]
[illegible] novatur
et [illegible]
[illegible] septem [illegible]
12 ebdomadas et unum diem et
quartam partem unius diei [illegible]
[illegible] dies [illegible] residuus [illegible]
septimanas. Et est causa quare
festa sanctorum et litera dominicalis

singulis annis mutat et per kalendarium
in quo [illegible] ubi incipit
et e contrario [illegible] in illis diebus
sit [illegible] septimana diebus iste erit [illegible]
septimane sequentis et sic iste dies erit
[illegible] anni [illegible] vii per septimanas
computando integras in tot diebus sit anni
anticipatio anticipacio quotiens est concurrens
Hic igitur annus cicli utique 7 et continet se-
ptimanas. Si quis preponat velis ciclum
solarem qui constat ex 28 annis duc
per 7 et habebis 1 dies qui unam septimanam
faciunt 1 anni bissextilis unus an-
nus cicli solaris. et 4 septimane [illegible] per
istud dicitur variatur hic sic patet
Si sequentis aliquid huius anno fuit dominica
die in sequenti anno [illegible] erit in die lune
Et si bissextus fuit in die martis [illegible]
[illegible] variata est per singulorum mensium
[illegible] concurrentes generaliter et artificialiter
sic in quota feria quilibet mensis incipit
et inuenitur per duos numeros scilicet regulares
solares et concurrentes

Est autem concurrens numerus non
excedens 7 proveniens ex
superhabundantia anni divisi per septimanas
unius dies large per unitatem unius
appellatur. Continua quamquam dicatur unitas
concurrens non excedens 7 dicendo quod
concurrens non excedit 7 sufficit esse
Sed autem 7 sunt ferie tantum in septimana
et concurrens cuilibet habeat [illegible]
feriam mensis [illegible] illorum excedit 7
proveniens ex superhabundancia dico

[illegible] septimas
per anno est et concurrens [illegible]
cicli solaris unitate sit [illegible]
sequitur [illegible] concurrentes [illegible]
6 septimana 1 anni 1 octavus est propter bissextum
computando [illegible] superaddito [illegible]
computandum et deinde procedatur ad 28
annum ibi 1 est concurrens et est annus bisse-
xtilis [illegible] revoluto [illegible] redibit ad
statum in [illegible] concurrentium. Unde et
spacium 28 annorum dicitur ciclus concurren-
tium per [illegible] Sed annus sic unus
concurrentium in quolibet anno cicli solaris
Continua [illegible] littera sufficit [illegible]
[illegible] in anno concurrens [illegible] anno
sed dicit martii [illegible] in marcio inci-
pit concurrens [illegible] quota fe-
ria [illegible] sufficit [illegible] marcio et [illegible]
est concurrens anni ut sic 6 [illegible]
tenet [illegible] et [illegible] tres [illegible] duos
[illegible] continuabis [illegible] dominical
[illegible] est concurrens. Continuabis [illegible]
[illegible] et sic deinceps. Dicitur autem concurrens
[illegible] cum quo est simul et concurrens [illegible]
[illegible] currit ad [illegible] a quota feria
mensis quilibet incipit

Regularis solaris est numerus septem
non excedens qui adiunctus concurren-
ti [illegible] ferias mensium indicat unus
large dico ut [illegible] non excedens
7 [illegible] istud mensium qui adiunctus [illegible]
[illegible] concurrentis [illegible] regularis solaris
[illegible] autem [illegible] regular

quibus mensis [illegible] sola incipit a principio mundi [illegible] aut fuit [illegible] 17 kalendas aprilis

Verum tamen solet vocari [illegible] dies seculi [illegible] arcete principium mundi renovat 3a martii constat quando per [illegible] dies [illegible] sunt seculi et [illegible] sunt [illegible]

Supposito itaque quod principium anni [illegible] 6 sit [illegible] patet quod [illegible] incipi[illegible] mensibus et sic [illegible] patet [illegible]

Ratio quod ordinatores [illegible] duorum [illegible] incipit a marcio et terminatur in [illegible] non incipit a ianuario [illegible] aut marcius [illegible] tamen habuisset a principio mundi [illegible] dies suos integraliter ut tamen habuisset in creatione mundi [illegible] mensium dies sic [illegible] ad [illegible] martii [illegible] dierum remanentium ultra divisione dierum [illegible] singulis mensibus per 3a [illegible]

[illegible] quod [illegible] marcii [illegible] possit formari omnes aliorum mensium [illegible] dierum [illegible] cum [illegible] simul [illegible] per divisione [illegible] patet et relinquitur [illegible] mensis aprilis et similiter agendum est de aliis ceteris mensibus [illegible] nichil sic residuum sit [illegible] mensis [illegible] septembris [illegible] possunt [illegible] omnes mensium [illegible] ut [illegible] sic [illegible] ad [illegible] duo [illegible] aut [illegible] simul [illegible] et [illegible] resultet [illegible] a totali sola incipit mensis [illegible] maior est septem [illegible] et [illegible] a totali sola incipit

[illegible] solares [illegible] in februario [illegible]

mensis [illegible] ad [illegible] plus [illegible] sit septem [illegible] et [illegible] solarium ad [illegible] regulariter lunarium

Est autem [illegible] die bissextilis integraliter [illegible] constat [illegible]

Est autem bissextus in februario [illegible] anno [illegible] solarium ut [illegible] solis adequatur [illegible] diei [illegible] est [illegible] anno solari 365 dies et 6 horae fere integre [illegible] in predictis [illegible] [illegible] ut [illegible] 6 horas

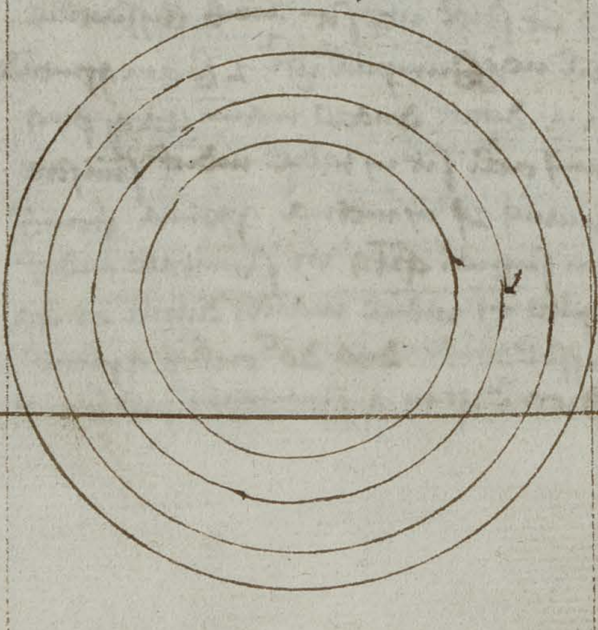
[illegible] quod [illegible] esset [illegible] 6 horas [illegible] itaque [illegible] in die [illegible] ponitur in kalendario [illegible] ad [illegible] 6 horas [illegible] incipit [illegible] 24 annis [illegible] die 3a annus a [illegible] in [illegible] 6 horae [illegible] sit anno et 6 in [illegible] et 6 [illegible] ad 6 horas [illegible] ex [illegible] dies [illegible]

[illegible] dies [illegible] in [illegible] bissextilis in [illegible] 6 kalendas martii [illegible] duos dies [illegible] bissextilis [illegible]

in duo dies super eandem litteram F computetur
sequenti die debet celebrari festum sancti
Matthie apostoli. Dicto bissexto sexto kalendas mar-
tis tenemur kalendis posteriori die celebra-
re festum Matthie. Ratio autem quare
in loco instituetur bissextus est quia
est prius anni perfectio et ille dies est perfectio
anni. Vel incipit dici undecimo et non ultimo
die ne festum forte [illegible] mole-
stetur. Unus autem perfectus est cum partibus [illegible]
[illegible] et sunt [illegible] [illegible]
sunt sicud totum. Et sepe eadem dies [illegible]
[illegible] o 2a [illegible] [illegible] dici
[illegible] quod in [illegible] incipiunt. Et [illegible] anni sit
bissextus vel bissextilis ut ne sit sed
unus anno domini ab nativitate
incipitur per x dimidia et si nichil est
residuum primus annus est bissextilis. Si vero re-
siduum aliquid fuit non est bissextus sed
illud residuum sive sit unitas sive
alius numerus ostendit annum post bissextum
vel ante bissextum cum partibus per x
equalibus. Annus gratie [illegible]
Secundo notandum quod licet bissextus abstraheretur
in 365 annis contingeret natale domini
celebrari in tam longis diebus sicut nunc
celebratur annunciatio domini. Quod sic patet
in tot annis dictis [illegible] sit annus
bissextus contingit ex diebus bissextilibus
quot dies 365 dierum [illegible] ex quibus diebus
sunt [illegible] 12 menses [illegible] 30 dierum
et [illegible] 31 dierum et isti tres [illegible]
[illegible] annum [illegible]

esset subtracta contingeret [illegible]
vel forte [illegible] sed quod forte natale domini
celebrari in tam longis diebus sicut nunc
celebratur festum beatissimi Johannis baptiste
quod sic patet considerate si duplicentur
365 anni et dimidium per x [illegible]
et ex [illegible] dies 128

Viso quid sit [illegible] et quid sit bi-
sextus. Sequitur de ciclo so-
lari qui est [illegible] [illegible] [illegible]
ciclus solaris revolutio [illegible] in quo
considerantur omnes variationes que
sunt in anno solari per concurrentes et bisse-
xtum et completur iste ciclus quod ultra
septimanas integras nichil est resi-
duum de diebus [illegible] ultra annum
ebdomadarum qui dies sunt causa
[illegible] ut de septem [illegible]
singulis annis ultra dies [illegible] ex quibus
proveniunt bissextus et illud [illegible]
28 annorum qui [illegible] completur
iste omnes variationes et quod festum
per quamlibet feriam variatur et bissextus in qualibet
feria contingit et in toto ciclo ex diebus
bissextilibus una integra septimana fit
[illegible] depingenti figuram cicli solaris
et tabulam [illegible] sic [illegible] figura [illegible]



Quom aut cyclus sit circulus et cir-
culo congruit vtrumque volvere pro-
pria assignare non est inconveniens sit cyclus
28 annorum diuisus sicut precipua discere
igitur cicli solaris 28 veritatem et vtilitatem
consideravimus in hiis generaliter vsibus suis
est dans libris agro fundit tabulam transfert
et dans [illegible] [illegible] arat gerit
et de tabulis glandis Cyclorum autem vsum sin-
gule littere singulis annis cicli solaris
per ordinem deseruiunt ita quod littera prima
prima 2o et deinceps prima 3 igitur vtili-
tas cyclorum vsum est vt sciatur que est littera
dominicalis quo anno et littera mutata littera
ista dominicalis erit per totum annum cui deser-
uit illa littera et bissextus fuit et si sit
bissextus littera dominicalis erit per 10 mensibus
scilicet incipiendo a marcio et littera que sequitur
erit littera dominicalis per ianuarium et fe-
bruarium usque ad locum bissexti Secunda v-
tilitas est quod littera dominicalis inventa statim
perhibet vsum quot sunt concurrentes f e d c b
a g concurrentes posuere [illegible]
f littera dominicalis est [illegible] concurrens sp-
aciens et binarius [illegible] absoluta [illegible]
litterarum ponitur in hoc vsu Tercia vtilitas
est vt sciatur vtrum sit annus bissextilis
vel non Computandi igitur 28 annorum computando
in . 4 . digitis dextre manus ita quod primus
annus cicli sit in radice indicis sinistre
manus 2s in medio [illegible] tercius
in superiori [illegible] in summitate indicis
[illegible] in radice medii digiti et ita
ascendendo [illegible] donec ciclus compleatur
Dico quod in . 4 . summitatibus sunt anni

scilicet bissextiles in radicibus . 4 . digitorum
Si vero nos in quarto anno fuimus post
bissextum vtrum in primo an in secundo
et sic deinceps hoc enim scitur
per tale ascendendo retrogradando etc
g f e d c b a quarta [illegible] in superiori
linea tunc littera aliqua [illegible] a-
scendendo tunc est annus bissextilis
scilicet a die prima ianuarii usque in diem
mathie per duos menses sic predictum
est litteram vero prime littere sequentis dominicalis
vero scilicet est tunc erit littera dominicalis
per decem menses littera igitur bissexti-
lis deseruit annis bissextilibus ex
quibus in toto ciclo vna colligitur
septimana in hoc habes [illegible]
[illegible] [illegible] [illegible] [illegible]
tilis autem Cyclus vero solaris
non incipit ab eo anno quem dicimus
sed [illegible] et [illegible] constituimus
principium qui esset a [illegible]
loco vbi est littera dominicalis f et vtitur
[illegible] quemadmodum in primo anno
sit [illegible] annus bissextilis omnes quidam
distincti cicli [illegible] falluntur
[illegible] dando [illegible] singula
[illegible] [illegible] [illegible]
valet Cristus bella gerit [illegible]
die bellum Ad [illegible] sit [illegible]
[illegible] [illegible] in hiis
que in superioribus [illegible] per [illegible]
ibi per litteras computatur et [illegible]
a summitate indicis per annum bissex-
tilem descendendo per summitates
et medias digitorum vt supra

[illegible] tabule [illegible] [illegible]

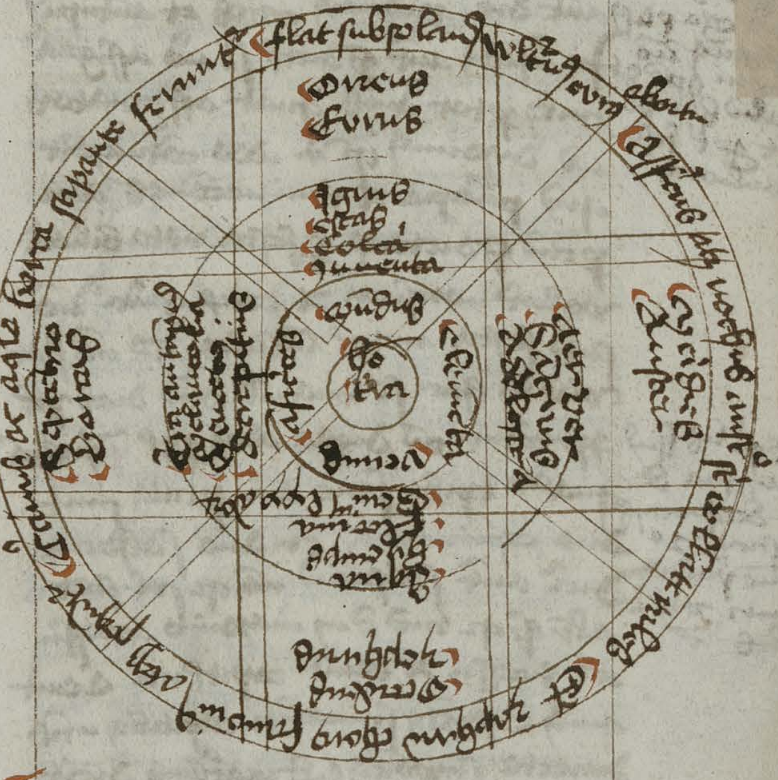
[illegible] [illegible] et [illegible]

Cyclus [illegible] [illegible]

et similiter dicendum est de circulo lune pro
hoc autem artificio sciendum quod ipse summus in isto
anno cicli solaris quo ad ordinem illorum
et usum tercie similiter annus domini ad
datum 20 vero Tunc rigidum summo post
natum fuit anno et totam summam per 28
divide et facta igitur divisione considera
si est residuum aut non Si non summus
in ultimo anno Si aliquid sit residuum
ostendit nobis in quoto anno cicli solaris
summus Sed in quoto anno cicli summus
cicli solaris 2m dionisium si scire
volueris annus domini addetur eidem
numero solis 10 post fuit natus in anno
et tunc divide per 28 et apparebit
quesitum secundum tritum in ciclo solari
sicut patet inspicienti vero secundum tritum
ciclo secundum dionisium abbatem

Non autem equales esset tempus
permutatio frequens a sole
fiat eius appropinquatio calefacit moderationi
desiccat. Remotio vero
infrigidat Sed modo remotionem
humectat 2m eius appropinquationis
et elongationis mediocritatem quo ad
nostram consistenciam distinguntur tempora
anni scilicet ver estas autumpnus et hyemps
Est enim tempus anni in quarta quadrarum
zodiaci puncto solsticiali equinoc-
tiali originata solis progressio Ver
autem solis tempus dicitur a vireo quia tunc
terra viret et floret Estas dicitur
ab estu dicitur sed a fervore Autumpnus
autem dicitur a clamore anni augmen-
tacione. vel ab autumpnus quod dicitur
vocabula cum temporibus apud
nos semel idem quod melancolia est

temperatum Est enim tempus frigidum
et siccum melancolicum hyemps autem
dicitur ab hyemis quod est divisio
et annus est divisio autem vulgaris
enim dividit annum in estatem et in hyemem
et autumpnum large appellans hyemem
tempus cum medietate Istorum quidem
quatuor anni temporum qualiter quatuor mundi
regionibus quatuor venti cardinales quatuor
elementa, quatuor corporis humores
et quatuor hominis etates et quatuor
complexiones conveniunt patet in
presenti patet figura pulcerrima



Principia igitur et terminationes
istorum quatuor temporum anni in quibus
sumitur: Ver dicitur petro
estas ecce mundi sequetur Hyems extra
tunc vero clemens autumpnus bartholomeus
Hyemps clemens hyemis caput est oriente

Nam astronomi [illegible] per quatuor quadrantes zodi-
aci ista distinguunt tempora in zodiaco [illegible]
[illegible] et veris [illegible] estatis cancer au-
tumpni pendula libra. Incipit hyem-
s pluvialis hyemis capricornus. Sed
in quibus mensibus et in quoto die mensis
incipiant habetur per hoc in versibus usualibus [illegible]
[illegible] a medio ver durat usque estas
autumpnus septembri hyemps [illegible] de-
cembri [illegible] aut estas quod autumpnus qui-
dam hyemis [illegible] dicunt imparialis
vel septimanas in fine decembris assignatur
ver quod quatuor diebus si bissextus fiat. Sum-
[illegible] aut die [illegible] estas et autumpnus
in versibus aut predictis sicut assigna-
tur post dies quibus assignatur
in [illegible] et ideo contingeret
eius principia et terminationes cum
principio predictarum festa notabilia
[illegible] et corpus [illegible] non
sunt festa magis notabilia. Quod non stat
[illegible] in hoc si unus vel duo dies post
[illegible] cum diebus [illegible]. Item
quatuor temporibus sunt cum [illegible] sunt
duo equinoctia et duo solsticia.
Dicitur autem solsticium quasi sol stet
[illegible] quia tunc est in maximo accessu
ad recessu a cenit capitis nostri. Cenit
quidem est punctus firmamenti capitibus nostris
directe suppositus. Et macrobius dicit
cenith [illegible] directum. Equino-
ctium vero dicitur quod dies artificialis nocti
adequatur. Item quibus vero signis
contingant solsticia et equinoctia per
in versibus usualibus: Hec duo solsticia faci-
unt cancer et capricornus. Sed noctes equat
aries et libra diebus. Est igitur solsti-
cium hyemale circa principium [illegible]
solis in capricornum in medio decembris.
Tunc enim sol maxime recedit a
cenit capitis nostri. Solsticium vero
estivale est circa principium cancri
in medio iunii. Sol tunc enim accedit
maxime ad nostram habitationem.
Sed autem sol procedens a primo puncto
capricorni veniet ad locum medium
inter utrumque solsticium faciet equinoctium
circa medium martii scilicet in principio
arietis et quod contingit in vere dici-
tur equinoctium vernale. Sol vero de-
scendens a cancro [illegible] capricor-
num veniens ad locum medium inter utrumque
solsticium et tunc est equinoctium et quod
contingit in autumpno dicitur equinoctium
autumpnale scilicet in medio septem-
bris ingressu solis in libram. Secundum
quod dicunt solsticiorum et equinoctiorum
doctores [illegible] apud modernos dixerunt
cum veteres quod sol intrat unum
signum 17 kalendas mensis [illegible]. Semper
procedens ponunt singula kalendas et quod
die [illegible] dixerunt solsticium vel equi-
noctium [illegible] cum sol intrat capricor-
num 17 kalendas mensis Ianuarii. Similiter
cum sol intrat cancrum 17 kalendas iulii
est solsticium estivale in die nati-
vitatis [illegible] baptiste. Similiter est
de equinoctiis cum sol intrat arietem
17 kalendas aprilis est equinoctium verna-
le ubi notatur [illegible] domini [illegible] 8 kalendas
aprilis. Item cum sol intrat libram
17 kalendas octobris est equinoctium
autumpnale in die conceptionis
[illegible] baptiste scilicet 8 kalendas
octobris. Sed quod solsticium hyemale
[illegible] capitulum [illegible]
[illegible] dictum est

fuit in die sexto tempore nativitatis domini
nostri [illegible] estivale non autem nati-
vitatem beati Johannis baptiste antece-
debat propter hoc quod [illegible] solis plu-
ribus [illegible] [illegible] accelerat. Unde
retrocedunt solsticia et equinoctia
continue cum ad veritatem sensibi-
litate sol moratur in quolibet signo
per 30 dies et 10 horas 29 minuta
et 36 1/2 secunda 30 tertia non 30 ter-
tiis complete. A medietate unius
hore supposito [illegible] in predictis [illegible]
[illegible] in 17 [illegible] [illegible] hore
[illegible] 28 [illegible] signo superfluere
computatur et cum 12 sint signa erit
12 28 1/2 [illegible] in unum [illegible]
[illegible] propter hoc [illegible] efficitur. Sic
igitur in annis 12 hora una inte-
gratur [illegible] dies naturalis ex 24
horis constet et 1232 annis
[illegible] in 288 annis dies unus naturalis
superfluere reperitur [illegible] igitur ad-
in die 10 sit solsticium hyem-
ale ante festum nativitatis die naturali
computato. Estivale vero beati Johannis
baptiste antecedit sicut predictum
[illegible] [illegible] et [illegible] [illegible]
annis predictis 288 ab annis domini
[illegible] [illegible] tempore nativitatis
domini et beati Johannis baptiste in 60
die [illegible] [illegible] solsticium et sic

ut est in 10 die [illegible] [illegible] [illegible]
annunciationibus domini et beati Johannis b-
aptiste conceptionibus. De equinoctiis
[illegible] [illegible] Solsticium [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] equa dierum [illegible] Solsticium
autem et equinoctium [illegible] [illegible]
et [illegible] ordini restitutum saltem
in die [illegible] [illegible] postremo.
[illegible] temporibus anni [illegible] 288 in fine [illegible]
[illegible] diebus [illegible] [illegible] [illegible]
[illegible] diei bissextilis [illegible]
[illegible] [illegible] annorum domini [illegible]
[illegible] predictum cum nichil remanserit [illegible]
[illegible] hec et eadem [illegible] [illegible]
[illegible] plura secula [illegible] spacia [illegible]
die [illegible] [illegible] [illegible] et [illegible]
[illegible] diei subtractione annis [illegible]
detractionibus sive [illegible] [illegible]
[illegible] annis [illegible] appe-
llari [illegible] Unde [illegible] in quolibet [illegible]
tempore anni est quoddam [illegible] [illegible]
dierum [illegible] [illegible] in vere ut sic
[illegible] [illegible] [illegible] [illegible] in nobis [illegible]
[illegible] [illegible] [illegible] ut in nobis [illegible]
[illegible] ille qui assimilatur veri
scilicet sanguis qui est calidus et humidus
[illegible] [illegible] in estate ut [illegible]
[illegible] [illegible] ut in nobis [illegible]
[illegible] ille qui assimilatur estati
scilicet colera que est calida et sicca
[illegible] [illegible] in hyeme ne sicut

Nota quod ... tractatu 29 quodlibet ... libri ... agitur de motu lune et quomodo ... motum lune ... sole ... apud ... in ... in p° et ...

tur defluunt scilicet ab arboribus et medio
hyeme ita in nobis minuantur varie
et superfluitates a nobis defluunt vel
ut in nobis temperetur humor ab ille
qui assimilatur hyemi scilicet flegma quod est
frigidum et humidum. Ieiunando scilicet in istud
tempus ut in quibus procedunt fructus
laborum operum vel ut in nobis temperetur hu-
mor ille qui assimilatur autumpno scilicet
melancolia que est frigida et sicca.
Quibus autem diebus et quo hec ie-
iunia celebrari debeant satis per hos versus
volt crux lucia cineres karisma-
ta dia ut sit in angaria quarta
sequens feria. Quare vero quorundam
vigilie apostolorum ... sunt ... ecclesie
institucionem observatur ad illorum festum
autem post isti duo petrus et andreas p-
aulus cum symone iudas ut ieiunia
in nobis annuncient atque matheus sa-
bbato ieiunares solis lucis si teneris ob
Cur in vigiliis ceterorum apostolorum nisi sol-
lempnibus patrie consuetudo obviaverit dominus
papa confirmavit ieiunare preterquam in vigi-
liis beati iohannis apostoli et evangeliste die
2° nativitatis domini salvatoris philippi et ia-
cobi scilicet pro die celebratis ... tunc cum sit
tempus leticie. Sunt ceterorum post predicta sex
festa annuisata in anno quorum vigiliis
ecclesia constituit ieiunare que in hiis prius
vesperis nativitatis domini pasche pentecostes jo-
hannis baptiste laurencii assumpcionis sancte .x. omnium sanctorum isto-
rum vigilias ieiunes licet ... marte
Quarta vero adventus domini precedens dui-
sitates licet dominica sit in anno solaris na-
tivitatis ad hunc autem die certa adventus do-
mini serant isti versus Andree festo
vicinior ordine quovis adventus

domini sunt ... feria ... ordine ... luce
donum celebrant ... hec itaque de ...
solibus ... sufficiat
Quoniam ex motu lune quadam modo
et solis plures certe consequuntur
utilitates de eius motibus et luminis
receptione et utilitatibus et ... phisicis
sequentibus quanto sensibilius fieri pote-
rit estimo esse expediendum ut autem
innuit maximianus ... terminis
lunam asseratione sapientum ... ...
lune quod videatur ... plani ... fit
... lune non est dubium ... in parte
illa in qua se soli obiciat se eius
emisperio ... ab ... emisperii
corporis eius illustrat ... ad lunam
... ...
qua sole ... plano lune lucis
scilicet et cum a sole descendens
... a latere ... ... parte
... lune acquirit ... ...
... ... in tota parte qua
apposita a sole illuminatur ... cum ...
... ... et mediante qua app-
... lune ... ...
... ... duobus ... ...
... dicitur ... duobus ...
... 2 vel 6 gradibus a sole distans
nobis apparere incepit. Cum autem a sole
distat ... gradibus orbe eius ...
... illuminant ... septimam ...
... ... 7 et 17 ...
... ... undecima
... dicitur ... 180 ...
... a sole discesserit ... ...

Marginalia (left): ... ... / ... ... / ... ...
Marginalia (right): ... lune ... ... / hic est ... ... a sole

in parte inferiori nobis opposita universaliter
illustrata respectu partis superioris dicta superficia
quamdiu deficiens ad perfectum pertingit re-
manens commendata recipit veluti
in figura plenius sensui figura patet



Mensis autem lunaris quadrupliciter
sumitur. Specificatur est enim mensis appa-
ricionis mensis medianalis et mensis
consecucionis. Primus itaque est spacium temporis
in quo luna currit zodiacum ex eodem
[illegible] proprio motu [illegible] redeundo ad
idem. Est enim [illegible] revolucio in zo-
diaco [illegible] signorum annus appellatur
a pluribus lune quod punctualis
[illegible] in [illegible] gentilibus
[illegible] motu [illegible] lune diurno ad
[illegible] maioratur. Est igitur
motus lune diurnus 13 gradus 10
minuta 35 2a 78 3a 31 4a 377ta
et 80 6 / gradus quorum 360
[illegible] 60 [illegible] minuti
minuto // sexagesima [illegible] minuti

2us et deinceps [illegible] ita quod motus iste quasi
in se et quod in suis partibus a [illegible] zodiaci
in [illegible] redactus quociens patet sub
[illegible] et [illegible] mensis [illegible] 2
dierum 7 horarum 43 minutorum [illegible] 12
[illegible] 17 [illegible] et [illegible] 2 [illegible] est
[illegible] motus lune sub quolibet signo
duorum dierum et 6 horarum et 39 minutorum
[illegible] usque ad minuta [illegible]
[illegible] bisse [illegible] supponit [illegible]
[illegible] 21 diebus [illegible]
[illegible] 8 horarum [illegible]
[illegible] luna diebus. Septembris [illegible]
[illegible] hora luna [illegible]
[illegible] diebus [illegible] a sole in
[illegible] debet [illegible] dies sol
[illegible] Ebdomadas vero mensis
[illegible] 28 diebus [illegible]
ebdomadas [illegible] dierum [illegible]
[illegible] a principio apparicionis
lune usque in 7mo die et ita deinceps
Non quarta ebdomada in 28vo die terminatur
[illegible] duobus [illegible] diebus [illegible] sub
radiis solaribus luna [illegible] duobus diebus
computatur [illegible] que
ad nos corporum fluidorum sicut medu-
llarum et cerebrorum [illegible] et precipue motus
maris mutatur [illegible] Ebdomada prima [illegible]
[illegible] Estuat mare [illegible]
[illegible] 2a. Tercia tegit aquas minime [illegible]
[illegible] reducta [illegible] fundit [illegible]
aggere littore [illegible] luna
[illegible] terrena [illegible]
Cum enim luna teneat [illegible] meridia-
num in austro [illegible] in
angulo sic mare plenum est. Cum vero [illegible]
[illegible] in occidente teneat [illegible].

completo relinquitur. Dicitur medicinalis sic
dictus mensis iste supponitur scilicet 26 dierum
et dimidii Galieno scribente in libro
de crisi et creticis diebus. Unde cum mensis
medicinalis ut ostensum est mensem me-
dicinalem equaliter consistens efficitur scilicet in 21
diebus duabus horis completis et in quartam
diminutis septimanis dividendo per quatu-
or. Lunaris vero mensis est spacium temporis quo
luna accensa a sole peragit circulum
suum in zodiaco rediens ad punctum
ubi accensa fuit. Unde ubi solem non in-
venit quia sol interim per transitum fere
per unum signum. Ideo attingit solem spacio
duorum dierum et quatuor horarum et 20 minutorum
unius hore 3 secundorum et 16 tertiorum et istud est
in commento solis dum de motu procedo
et versus inferius ut videmus. Dicitur igitur
mensis continet 29 dies scilicet naturales et dimi-
dium cum minutis fractionibus sicut patet
per Alfraganum in presenti differentia 5 primo capitu-
lo et per Ptholomeum in distinctione
Almagesti 5 in prohemio libro qui intitulatur Al-
magesti et sicut per motus solis et
lune diversos. Si enim supponamus quod sol
et luna sunt in eodem puncto zodiaci et
simul incipiunt moveri in tempore coniun-
ctionis invenietur sol pertransisse circiter
signum unum et luna totum zodiacum
et circiter signum unum. Dicuntur igitur in eo
motu (?) Hic iste appellatur mensis competens
secundum (?). Item quatuor tempora anni
sunt distinguuntur quatuor scilicet calida et
humida scilicet calida et sicca. Autumnus
frigida et sicca hyems frigida et humida
esse asseruntur. Patet igitur quod lunatio
quelibet est equalis 29 dierum et dimidii cum

predictis minutorum fractionibus. Sed cum etiam
menses (?) ad numerum 29 dierum
incompletorum oportet bis dimitti (?)
annis ad embolismorum constitutionem
sufficit dies. Dividendum enim lunationes
computantes unam lunationem 30 dierum
aliam 29 dierum. Quod tamen impeditur
quandoque per bissextum quandoque per embolismum
quandoque per saltum lune. Et eo lunaris
numerus computatorum ecclesie sit 30 dierum
alia 29 dierum. Lunatio parium dierum
attribuitur mensi impari et e converso
impar luna pari sic etiam in mense.
Si autem ratio queratur quare sic dicitur
Dicendum quod secundum primam mensium annorum a Julio
institutorum mensis impar loco positus
fuit semper plurium dierum et ideo competit
ut mensi in numero dierum potiori mai-
or attribuatur lunatio. Unde solet
dici (?) lunatio
illi dari cuius mensis in quo completur
(?) Et in quo completur lunatio mensi
datur. Si autem due lunationes
finiuntur in eodem mense altera illarum
est (?) scilicet embolismalis etc.
Sic autem embolismus communiter aut
bissextum impediat lunationem alter-
nationem. Regula enim est quod
per annum bissextilem lunatio februarii
est 30 dierum in aliis autem annis
29 et hoc propter unum diem correspondentem
bissexto in februario. Unde in anno
bissextili tres erunt lunationes continue
30 dierum scilicet Januarii februarii
et marcii. Secundum quod competentibus lu-
nacio marcii incipit ante locum

bissexti et sic cum bissextilibus vide-
tur duplex [illegible] coniunctio
per lunationem martii sit 30 dierum quod est
in anno [illegible] et lunatio februarii 29 tantum
quod est [illegible] prius dictum. Ad hoc autem
dicendum quod ut non debet lunatio mar-
tii [illegible]. Sed in isto libro kalendario
lunatio febr. xxiii 30 et ita [illegible] de singulis
signaturis lunationibus martii intelligi potest
in loco sexti hec est [illegible] quod [illegible]
[illegible] per [illegible] sexto a
tertio nonarum februarii usque ad locum
bissexti ita quod in penultimo sexta a
pridie nonas [illegible] kalendas februarii
et sic descendendo usque ad locum biss-
exti. Illud idem ostenditur [illegible] lun-
[illegible] in kalendario obliquis tractibus ab [illegible]
loco ad bissextum. Ad quid autem [illegible]
to singulis annis lune hoc tempore [illegible]
[illegible] cursus a sole. Pro inveniendo
[illegible] tabula a romanis. Quidam
caldei invenerunt [illegible]
a romanis transmiserunt. Romani
vero illud [illegible] facilitate et
utilitate in kalendariis suis [illegible]
[illegible] litteris scripserunt. Unde [illegible]
[illegible] annus appellatur. Item [illegible]
anno cicli decemnovennalis per
totum kalendarium signationes
lune per [illegible] notatur in [illegible] per
[illegible] et deinceps [illegible]
[illegible] a decembri in ianuarium transibit
ab unitate in [illegible] ponendo
[illegible] pridie ydus ianuarii
[illegible] ordo in ceteris annis
[illegible] ciclus iste continebit [illegible]
[illegible] in [illegible]
[illegible] erit. [illegible]
[illegible]

in 30 anno [illegible] cicli [illegible] die [illegible]
[illegible] fiat [illegible] alii modo
[illegible] igitur [illegible] formatum
[illegible] addendo [illegible]
[illegible] maior [illegible]
[illegible] residuum [illegible]
[illegible] consequenter immediate
[illegible] octavi [illegible] aliquid
[illegible] loco per primo [illegible] si non
[illegible] vacuus [illegible]
[illegible] per totum kalendarium [illegible]
[illegible] maior [illegible] maior
[illegible] immediate. Illud [illegible]
[illegible] loco in kalendario ita quod in [illegible] loco
[illegible] propria [illegible]
[illegible] et cetera reliqua [illegible]
[illegible] sunt [illegible]
[illegible]
[illegible]
[illegible] diebus [illegible]
[illegible] Tamen [illegible] tenet [illegible]
[illegible] ordo [illegible]
[illegible] Si [illegible] nonas [illegible]
[illegible] Et [illegible] nonas [illegible]
[illegible] ordo [illegible] maior [illegible]
per loca [illegible] non est [illegible]
[illegible] Quatuor
[illegible] pridie nonas. Et
Iulius [illegible] ubi [illegible] appellat
Augusti capite tres [illegible]
Quatuor octobris [illegible]
[illegible] nonis [illegible]
linea [illegible] tenet una [illegible]
[illegible] Excepto [illegible] mensibus [illegible]
[illegible]
[illegible] ordo minor [illegible]
[illegible] ut [illegible] Ubi quippe non [illegible]
[illegible] ordo

velud [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] post [illegible] opiniones [illegible]

Est autem ciclus vero decennovenalis
19 annorum solarium revolutio in qua
omnes lune combinationes diversitates ad
proprium revertuntur. Porro lunaris [illegible] quod
[illegible] combinationes lunationum [illegible]
signando et cui desunt aureus numerus
in kalendis [illegible] inscriptis. Romani
quidam antiqui invenerunt ciclum quem
lunarem dicebant, per quem lune accen-
siones dierum et horarum assignaverunt [illegible]
[illegible] in ordine [illegible] inceptionibus di-
screpante. Incipit in kalendis Januarii tercio
anno videlicet 19alis cicli vel secundum alios quarto,
qui ab aliis tamen nomine discrepat.
Ipsi enim ciclum quem alii lunarem vocant
considerantes [illegible] cicli 19alis [illegible]
[illegible] pascalem [illegible] ut [illegible]
[illegible] sunt quibus 39 [illegible] embolismalis
de necessitate [illegible] dicte anno [illegible]
[illegible] pascalis per 19 [illegible]
[illegible] ab ipsa enim combinatione
usque ad illud quod per unitatem [illegible]
[illegible] et ita [illegible]
aut unitate in kalendis Januarii [illegible]
facta computatione per modum [illegible]
per additionem [illegible] formam [illegible]
itaque ciclus 19alis a Januario incipit
nobis autem magistri Caldeos et Eusebium
[illegible] imitantium qui a lunatione pascali
ut dictum est incipit. Si autem scire vo-
lueris in quoto anno cicli 19alis sumus
annis domini adde unitatem et totum di-
vide per 19 et si nichil fuerit residuum sumus
in ultimo anno. Si vero aliquid quod
preter illud fuerit ostendit nobis in quoto
anno cicli sumus. Sed si volueris in quoto
anno cicli lunaris sumus secundum Romanos
ab annis domini subtrahe 2 vel 11 adde.

[illegible] [illegible] fit anticipatio [illegible] in kalendario
[illegible] ista est et plus [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
19 [illegible] [illegible] [illegible] cyclo [illegible] 19 annis fit
anticipatio [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] cycla [illegible] 2 [illegible]
[illegible] [illegible] totam anticipationem [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] per 3 et fere [illegible] [illegible]
[illegible] [illegible] 24 hore [illegible] [illegible] ad horas [illegible]
[illegible] [illegible] [illegible] [illegible] per 24 [illegible] [illegible]
[illegible] [illegible] anticipatio [illegible] in kalendario [illegible]

et dimidie ut patet et quinquies [illegible]
[illegible] [illegible] hac habeatur
pro anno lunari.

Nec vulgare mirandum dubitacio-
nis causa quod [illegible] cum luna
realis [illegible] quod sit [illegible] secundum
[illegible] [illegible] [illegible]. Sciendum
quod [illegible] supponit [illegible] 19 annorum
solarium et ciclum 19alis [illegible] [illegible]
[illegible] in 19 annis solaribus secundum [illegible]
[illegible] distinctione Almagesti
sunt 6939 dies et hore 16 [illegible]
lunationes [illegible] fuit computatio. [illegible]
ciclo vero decennovenali sicut
ab eadem [illegible] [illegible]
Almagesti [illegible] quod sunt totidem
dies et 16 hore et fere due tertie unius
hore [illegible] ciclo 19ali [illegible]
[illegible] sive computacionem recedit
[illegible] sive [illegible] [illegible]
appellatur a vera computacione per unum
diem et unam horam [illegible]. Gamaliel
[illegible] qui Pauli apostoli [illegible]
doctor et [illegible] [illegible]
[illegible] ipsius et Jeronimus [illegible]
cicli illius in quo [illegible] [illegible]
[illegible] lunam esse [illegible]
10 kalendas aprilis et quod ad [illegible] reddit
10 kalendas februarii. Solis [illegible]
[illegible] ponit ibi. Sed ab [illegible]
[illegible] elapsi sunt 1237
a quo anno. Et cicli 19alis [illegible]
[illegible] patet quod in 6 [illegible]
et in [illegible] [illegible] [illegible]
[illegible] computacio in [illegible] lune
[illegible] [illegible] redacta [illegible]
diebus et 12 horis [illegible] per tres dies
et dimidium necessitate media [illegible]

[illegible] a [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] ... tractatus ... de anno lunari ... in 3a parte ... embolismali ... [illegible]

Per dictam lunam vel paruam deficit dies 3 vel 4 ut antiquis. unde propter 3 vel 4 dies tenetur anticipare et vitetur error nostre super l. 10 kalendas februarii signatur super f 134 kalendas eiusdem et sic de aliis. Omnibus ordine computatis sequitur quod error est. Sed quoniam in calendario quandoque aliquid in kalendario transmittitur prohibitum est. Et modo [illegible]

Nunc ad quartam [illegible] continet [illegible]

Annorum autem duo sunt genera scilicet communes et embolismales. Communis est quidem spacium 12 lunationum in anno solari verissime terminatum. Et dicitur communis quia 12 lunationes habet sine mensibus lunaribus que medietatem anni solaris et 12 mensibus solaribus [illegible] 2 [illegible] communis fere simul [illegible] conveniunt sicut probatur in assignatione embolismorum. Habet autem annus ille 354 dies et quintam et sextam partem diei ut Ptholomeus et Alfraganus testimonium perhibent. Quod sic ostendi potest sine periculo [illegible] habeat sex lunationes 30 dierum et alias sex lunationes 29 dierum [illegible] computata. Unde patet quod annus solaris excedit hunc annum communem lunarem cum minutiis fractionibus in 11 diebus. Frequenter duo illi anni simul incipiunt sed terminatur annus communis lunaris per 11 dies ante annum solarem sicut patet quod semper in anno [illegible]. Cum autem si luna fuit prima

in kalendis Januarii eadem die erit novilunium [illegible] solari in 12 [illegible] accidit [illegible] in diebus. Et similiter est in kalendis [illegible] in kalendis cuiuslibet mensis et in singulis diebus anni. Unde per hoc rectificandum [illegible] oportet duobus modis scilicet epacta et regula lunari. Per quorum cognitionem ad inveniendum patet etas lune in kalendis mensium. Ad hoc autem cum etas scire lune singulis diebus anni composito expresso dierum de etate lune secundum tempus preteritum et futurum dantur due regule. Si autem super inveniatur luna hodie alicuius certe etatis et velles scire in anno futuro hac eadem die quota esset etas, etati lune quam in isto die habes adde 11 dies et habebis etatem eius in eodem in anno futuro et sic ad infinitum. Hoc tamen proviso si excrescat numerus maior quam 30 reiectis 30 residuum ponatur pro etate lune. Si autem scire volueris cuius etatis luna fuit hac eadem die in anno preterito vel 2o vel 3o etati lune presenti hic adde 19 et habebis etatem eius in anno preterito et sic deinceps. Hoc tamen sicut prius proviso si excrescat numerus maior quam 30, 30 reiectis residuum ponatur pro etate lune. ~~Si autem scire volueris~~ [illegible] cum 11 diebus et 6 pone pro luna futura et preterita quamvis aliquando luceat in uno die fallacia quod tamen quandoque accidit per regulam constituitur.

Annus enim embolismalis est spacium 13 lunationum constans ex 384 diebus. Unde patet quod excedit annum lunarem communem in 30 diebus, annum vero solarem in 19 diebus. Et dicitur embolismalis

ab embolismo sicut bissextus a
bissexto. Lunarum videndum est quid sit
embolismus et unde oriatur et in
kalendario ubi interponitur et cum in-
cidit eius in kalendario per ipsum constituit.
Est igitur embolismus lunatio 30 dierum
illi mensi attributa nisi cum ex-
cessus principalis lunatio dici me-
retur sed ex reliquiis cum lunatio-
nibus conficitur mendicando. Di-
citur autem embolismus ab embolos quod
est excrescentia, proveniunt enim ex concre-
mento fractionum quas quaelibet luna-
tio cum cycli excessat una
dierum. Sunt enim in cyclo 19 annorum 23-
7 lunationes et tamen sunt 228
menses solares, cum singulis men-
sibus singule attribuantur lunatio-
nes supersunt septem que embo-
lismi dicuntur. Ad quorum completio-
nem cuiuslibet sui proprietate sit 30 di-
erum lunationum et totius cycli
... secundum aggregationem fractionum. In
cyclo quoque 19 annorum sunt lunationes 237
quod sic patet in 12 annis quibus 29
lunationes sunt in embolismalibus
sunt 19 lunationes que su-
perioribus addite faciunt 237
lunationes de quarum qualibet ad-
... omittitur ... dua-
nita 3 1/2 16 1/3 et duodecim luna-
tionum exsuperantur, scilicet ad ...
embolismales et ... alias
de residuis ... 228 ...

una 30 dierum et reliquis 29
dierum et per annum bissextilem
una scilicet 30 dierum quamvis
... sit computatio in cyclo.
Sed bissexti ad computationem
lunationum scilicet in bissextilibus annis cycli ... anni
dicatur et diebus integris scilicet
ad scilicet embolismos perficiendos
exiguntur dividi debent.
Resumere singularum lunatio-
num et ... cycli 19 annorum
fractiones multiplicantur per summam
lunationum et habebis dies et
horas quorum dantur integri ex ...
dies integri lunationibus scilicet
cum bissextilibus debitis residuis
perficit 6 embolismos ut sit
cuiuslibet horum dierum 30 ... re-
linquitur quod deest septimo embolismo
ad sui completionem in hoc 76
... aliorum embolismorum
debet esse 30 dierum a lunatione
iulii in ultimo anno cycli cum
non sufficiat ... scilicet hoc
et ... 3 ... computatur ad luna-
tionem iulii 29 dies ...
dies quos ad ... sui ...
sic subtrahitur a lunatione iulii
dicitur saltus lune de quo ...
... aut annus ...
cycli 19 annorum in kalendis et ...
... sit annus embolismalis
... Cristi factus
anno embolismali in ...

nona lunacio vel reddita sine dubio
et ipsi sunt septem dicti .i. anni
embolismales deficientes prima
primo et deinceps. Vide igitur quo-
ta sit littera dictionis in ordine al-
phabeti et in tali anno cicli lunaris
incipit embolismus vel de fine
illa dictio. Item est sine labore
scitur in hiis versibus. Tercius et se-
xtus octavus et undecimus post
et quartusdecimus decimusseptimus
et decimusnonus. Sciendum igitur quoto
mense et quoto die mensis eiusdem
incipiant embolismi. Scias quod
sunt quedam alie littere alphabeti te-
nentes [illegible]. Item ipse
sunt .i. dicti septem embolismi
deficientes prima primo secunda secundo
et deinceps. Vide igitur quota
sit littera prima dictionis in
alphabeto in tali mense incipit
embolismus in dictionibus supra-
scriptis. Vide etiam quota sit prima
littera in alphabeto secunde sillabe eiusdem
dictionis in tali die eiusdem mensis est
sedes embolismi. Secundum autem
quosdam computistas contingit error in
[illegible] per embolismum quia error
vicissitudinis, error variacionis
et error lunacionis et error
epactarum. Error vicissitudinis est
quod plures lunaciones sunt simul
30 dierum. Error lunacionis
est quod lunaciones [illegible]
suis mensibus. Error variacionis
est quod mensis ponitur in pari loco
impariter et lunacione vel econtra.

Item et quot errores contingunt per embolismum in [illegible]

et error epactarum

Error epactarum est quod secundum
epacte et regulares lunares primi
ergo embolismus incipit secundo die
decembris et finitur ultima die
eiusdem et contingit error vicissitu-
dinis lunacio eius embolismalis et
lunacio Januarii sunt simul 30 dierum
et si bissextus fuit lunaciones
erunt simul 30 dierum. Si lunacio
embolismalis Januarii februarii
marcii. Embolismus iste qui assi-
gnatur in 3o anno cicli lunaris incipit
mense in lunacionibus imparibus
aprilis ut dictum est. Secundus embolismus in-
cipit secundo die septembris et finitur secundo
die octobris. Contingit error vici-
ssitudinis quia lunacio septembris et
embolismalis sunt simul 30 dierum et
assignatur in sexto anno cicli lunaris ea-
dem racione qua prius repetita est.
Tercius embolismus incipit septima
septima die marcii et finitur quinta die
aprilis et contingit error vicissitudinis
quia lunacio marcii et embolismalis
simul sunt 30 dierum et bissextus
fuit contingit error lunacionis quia
lunacio aprilis finitur die marcii tercia
lunacio maii [illegible] 2o die junii lunacio
junii quarta die julii. Item est anno
[illegible] epacte et [illegible] in principio
maii julii et junii ut [illegible]
Quartus embolismus incipit tercio die Ja-
nuarii et embolismalis simul sunt
30 dierum et si bissextus fuit lunaciones
[illegible] erunt simul 30 dierum. Si lunacio
Januarii et februarii embolismalis

[illegible] est 27 [illegible]
[illegible]
[illegible]

et marcij contingit error [illegible] quia
lunacio februarij finitur 2° die mar-
cij lunacio vero marcij prima die a-
prilis propterea tamen incidunt epacte
et facte in principio marcij si sit
bisextus. Secundus embolismus inci-
pit 2° die novembris et finitur
prima die decembris et contingit error
vicissitudinis quia lunacio novem-
bris et embolismalis simul sunt 30
dierum et natura quia embolismus iste
[illegible] 2° die decembris
in rota lunari ponuntur duo numeri
17 et 2. Si enim hic ponerentur ipso
die [illegible] contingeret inconveniens
scilicet quia embolismus precedens tunc esset
29 dierum et lunacio decembris 30
dierum contra [illegible] contingit em-
bolismus autem iste [illegible]
19 anno cicli 19lis [illegible] predictum.
Septimus embolismus incipit septimo
die augusti et finitur ultimo die
eiusdem et contingit error vicissitudinis
quia lunacio embolismalis et luna-
cio septembris sunt simul 30 dierum.
Est autem embolismus iste in 11
anno cicli 19lis ut patet in predicti-
bus. Septimus embolismus incipit 6°
die marcij et finitur 3° die aprilis et
contingit error vicissitudinis quia lunacio
marcij et lunacio embolismalis sunt
30 dierum et si bisextus fuerit ex luna-
cionibus erunt 30 dierum scilicet januarij fe-
bruarij et embolismalis. Et marcij
contingit etiam error [illegible] quia luna-
cio aprilis finitur 2° die marcij et luna-

maij prima die junij incidunt etiam
epacte [illegible] augusti vero at-
que bisextj embolismi nec aliquo
computo minus [illegible]
lunacionibus. Si enim alibi ponerentur
plures incidirent epacte et plu-
res contingerent errores sed de duobus
malis minus malum eligendum [illegible]
[illegible] Si contingat duo [illegible] di-
ligere [illegible] ad tempus minus eli-
gendum beda docet.

Hec sunt autem artificialis sive
inspeccione bisextj quoto
etatis sit luna in kalendis mensium
[illegible] in quolibet die anni [illegible]
[illegible] duo [illegible] epacte et [illegible] est
[illegible] epacta [illegible] 30 non excedens
proveniens ex superhabundancia
anni solaris ad annum lunarem
30 [illegible] non excedens quia ad efficiendum
epacte sicut [illegible] lune
nulla enim etas lune maior
[illegible] 30 dierum [illegible] epacta [illegible]
[illegible] maior proveniens ex super-
habundancia anni solaris ad annum
[illegible] dicitur epacta proveniens
[illegible] in dierum [illegible]
[illegible] anni solaris
excedit annum lunarem [illegible]
[illegible] anni cicli 19lis epacta non
[illegible] non excedat annus ex [illegible]
[illegible] epactam [illegible]
[illegible] ultimum anni cicli 19lis [illegible]
[illegible] anni [illegible] et ille [illegible]
[illegible] et in eodem anno [illegible]
in diebus [illegible] inequalitas

adiuncte et unum ex solaribus
erunt in universo 30 dies. 30 [illegible]
sunt quod nulla epacta est. 30 addita
cum iam debet deleri ad ostendendum
etatem lune. Secundum autem hoc 11 epacta
3 quae 22 [illegible] 3 [illegible] abiciuntur
30 et ita sunt epacta de mense
per additionem in eadem semper [illegible]
[illegible] eius tenet [illegible]
a solis lune lunaris epacta mutatur
per quemlibet annum. Vide ergo quota sit
luna in quo kalendas aprilis et tot
unus est epacta illius anni. Sed si
ex [illegible] queritur epacta illius
anni tunc [illegible] inveniretur usque
[illegible] unum post addere cum post unum
[illegible] ponatur enim primus annus cicli
19 lunaris a radice pollicis secundus in
media iunctura tertius in summitate
quartus iterum in radice pollicis et ita
circulariter computatis annis cicli de-
cennovenalis. Deinde videatur
annus quo queritur epacta et si
fuerit in radice pollicis sub-
trahatur unitas. Si in media
iunctura adde 9. Si in summitate
adde 19 et habebitur epacta
anni quesiti. Dicitur autem epacta
ab epi quod est super et acta quod est
quasi dies super addita quasi super
adiecta regulari etatem
lune in kalendas mensium ostendit. Re-
gulares lunares est numerus non ex-
cedens 30 qui adiunctus cum
epacta ostendit etatem lune

in kalendas mensium [illegible] 30 [illegible]
excedens. Ut sunt epacte pone [illegible]
aliud numerum qui adiunctus et [illegible]
ostendit efficiendam epacta est re-
gularis. Origo autem regularium
ex 7 diebus remanentibus ultra
dies anni in singulis mensibus per
30 distributis vel septem hoc per [illegible]
[illegible] ut cum quolibet mense [illegible]
regularis quota fuit luna in kalendas
ex principio computis et [illegible]
[illegible] ad hoc sciendum supponatur quod
primo in primo anno cicli lunaris
cum ante annus unitas 10 dierum
ad kalendas februarii et sic luna
concurrens in kalendas cum unitas hoc
per [illegible]. Similiter considerando unitatem
[illegible] cum kalendas aliorum men-
sium semper [illegible] et [illegible]
Sed septem et quod [illegible] [illegible]
[illegible] supponatur 19 annus cicli
lunaris quando illa fuit et [illegible]
ad primum annum et secundum hoc septem
[illegible] per [illegible] 7. Si velis igitur
cum mensium [illegible] formare arti-
ficialiter primo supposito summe [illegible]
[illegible] dierum septembris et adde cum
[illegible] et a totali numero subtrahatur
lunacionem mensis eiusdem et residuum
erit regularis mensis septembris et ita de
mensibus [illegible] semper ac dant
[illegible] de septembri [illegible] 3a [illegible] februarii
[illegible] summat [illegible] [illegible] addatis
[illegible] igitur epacta et regulares si [illegible] 3a [illegible]
[illegible] [illegible] adde 4 dies addita [illegible]
[illegible] [illegible] et [illegible] fuit [illegible]

[illegible] quod ... ... etatem lune ... ... [illegible]
[illegible]

etatis ... etate lune in kalendis cu-
mensis iungat simul computata et residuum ali-
mensis. et si ex illorum coniunctione resultet
30 vel minor numerus kalendis etatis erit
luna in kalendis mensis illius cuius principium
suscepisti. Si maior veniet 30 et resi-
duum ... etate lune ... dantur
luna mensis computate cum residuum plus
venerit quod plus sunt 30 relinquitur
Ad sciendum etatem lune in kalendis mensis
habita addatur unus dies pro mensis
preteritorum uno die subtracto ne plus
bis computetur et in die presenti habebit
etas lune. Et si simul luna lunacionis
mensis 30 excesserit residuum retento
lunacionis mensis propria ... Si autem
quia hora luna a sole recedat
scire volueris cum quotiens fuerint kal-
enda ... multiplica et hiis multiplicatis
diebus cum preteritis a kalendis Januarii
usque in diem de qua queritur aggrega
quibus in unum redactis per 7 divide
scilicet hac in hora recedit lunam
cui 7 defuit et in tanta ... hac
puncto quot annis ceterarum superfu-
erunt horarum. Si vero non aggregatio
60 expresserit tunc reiectis 60
de residuis fac ut prius. Et si in
... superfuit in ultima hora diei
decimum puncto luna recedit. Sic
istorum ... simul lunam ... quod ad
nos in nostro recedit ... et
auctoritate ptholomei primo ...
confirmat luna quid de ... recedat
videtur ad ... a solis ...

quintu descendens semper ...
eum reputat et proximos eius maior
assensus. Luna autem singulis
diebus in crescendo 12 punctis a sole
est remota in decrescendo soli ad
movet ad 12. unde si scire velis in
quo signo sit luna et quanta a
sole distans etatem eius per 12
multiplica et per 10 partire et quot
fuerint denarii per tot signa di-
stat a sole luna et quot re-
manserint unitates per tot puncta
in signo subsequenti 30 graduum
profuerit. Signum autem intellige
signi quantitatem ut si ponas luna
tenerit cum sole in 5to gradu
... ... quanta sint
erit in 10 gradu geminorum luna
cum per 12 gradus ... sol
unde complet et ut ... vel ...
minimis sen sensibile proporcio
ponatur. Si vero per quot horas luna
de nocte luceat scire volueris
eam in crescendo sunt etate eius
per 12 multiplica in decrescendo resi-
duum etatis cum complementum sint
... a 30 per 12 multiplica et per 7
partire quot ... fuerint ...
per tot horas lucebit et per quot
ultra ... unitates per
tot puncta unum ... signum ...
10 puncta hora est horas 7 ...
quinque puncta horam constituunt in
... computacione ... puncti ...
... ... signi

... Si vero per quot horas ...
... ...
volueris per quot horas luna in nocte
luceat tunc ... et ... [illegible]

Hic dicit auctor [illegible] epactarum et regularium in quarto sermone [illegible] ... in quo cyclo lunari et epactis [illegible] ... [illegible]

Incipiunt autem regulares et epacte a septembri. Et est epacta unus variabilis. Regularis autem invariabilis. Sed et sunt volubiles in quarto anno cycli epactarum semper. Secundo est eodem artificio quo utebatur ... in quarto anno cycli 19 [illegible] additionibus [illegible] unitatem et dicitur per 19. Iste enim cyclus epactarum non differt ab illo cyclo 19 nisi quia prius incipit spacio 4or mensium scilicet a septembri. Alle ... a marcio. Reperiuntur autem epacte et regulares in toto ciclo.

[illegible] que in ciclo ... anno [illegible] consilium a calendis ... maio. Ponimus anno dicunt enim epacta et regularis lunam esse 28 dierum in kalendis maii cum tamen revera sit 21 dierum. Dicunt etiam in eodem anno lunam esse 30 dierum in kalendis iulii cum sit 29 dierum. Item in undecimo anno ... nisi sit bissextus fallit utraque a vera ... dicunt enim epacta et regularis in anno cicli lunam esse 29 dierum in kalendis marcii cum sit 28 dierum ... bissextus fuit tunc duo dies computantur sexto kalendas marcii. Item non fallit ... eciam in ... anno ... augusto ... fallit ... maii. Dicunt etiam epacta et regularis in ultimo anno cicli 19 in kalendis maii lunam sit 29 dierum cum revera sit 20 dierum et dicunt in eodem anno lunam esse duorum dierum in kalendis augusti cum revera sit trium dierum ... saltus lune contingit ... lunacio augusti ... incipit uno die ... et ... saltus lune. De saltu

Restat saltus lune ... [illegible]

[Footnote:] [illegible] in qua debet ... saltus lune et dividit in tres partes ... [illegible] ... lunacionum etc.

... dierum a lunacione. Et ... in ... anno cicli 19 ... [illegible] ... per unum ciclum ... lune ... prima quod erat [illegible] ... clapsos dicitur prima quod esset 17. Tamen supponit 19 annis solaribus ... ex toto ad equari totidem lunacionibus ... per annum in 19 annis solaribus ... dierum et 28 hore ... lunarum ... in totidem lunacionibus ... circa mensem et annos et ciclum ... dierum computata integra non expectat ... 28 horarum in fine cicli ... dici ... computat lunam primam 10 kalendas ... cum tamen in ... debemus expectare fine 18 horarum ... lunam primam ... lune anticipacionem que ... dicitur et est saltus lune. ... ex toto saltu lune in singulis ciclis ... lunam 17 primam dicunt ... ciclis reducitur ad ... ciclo ... bissexti ... anno ... bissextilis. ... de quatuor ciclis in ... Bissextilis ... de ciclis ... assignato ... anni bissextiles ... prius ... luna prima ... computatur ... debemus expectare fine 18 horarum ... saltum faciunt ... luna ... antecedit ... ciclo ... esse ... [illegible]

[Margin, left:] 19 ... [illegible]

[Margin, right:] [illegible]

Septuagesima [illegible] ... dies [illegible] ... in Babilonia [illegible]

[illegible] 18 horas saltu faciunt et ita habemus 36 horas, hoc est diem unum et dimidium. Diebus autem integris per bissextum intercalatis, dies lunationis februarii per 20 bissextos, 21 cicli dimidium autem dies resurgunt [illegible] ciclo excepto saltu [illegible] 18 horas resultabunt. Unde ad residuum superioris cicli habemus diem [illegible] et 6 horas diebus intercalatis in lunationem februarii per 20 bissextos huius cicli [illegible] assignata. Item [illegible] habemus excepto saltu 18 horas que aggregatis 6 supra [illegible] dies unum integrum qui in [illegible] februario per 20 bissextos [illegible] cicli [illegible] est et [illegible]. Item in [illegible] cicli principio luna [illegible] et [illegible] [illegible] in [illegible] ciclis [illegible] et [illegible]. [illegible] in [illegible] ciclis ad [illegible] redeant. Item aliud tempus [illegible] cicli ciclorum appellatur. Item [illegible] quoto ciclo [illegible] sic [illegible] 19 annos cicli [illegible] a bissextili anno [illegible] quemcumque ordine [illegible] in fine eiusdem cicli [illegible]. Et si [illegible] [illegible] in primo ciclo. Si autem [illegible] in 2°. Si [illegible] in [illegible]. Si autem [illegible] in ultimo.

Festa autem mobilia ad [illegible] breviationis descriptionem [illegible] ordinis [illegible] [illegible] est [illegible]. Est igitur festum mobile quod per [illegible] ascensum et descensum celebratur ullum sibi locum in kalendario [illegible] assignatum. Sunt [illegible] quinque festa mobilia: septuagesima, quadragesima, pascha, rogationes et penthecoste. [illegible]

[illegible] 7 [illegible] festis mobilibus [illegible] et [illegible] festa mobilia [illegible] que festa ista [illegible] habent certa [illegible] in kalendario [illegible] [illegible]

Septuagesima a septuagenario [illegible] 70 diebus. Incipit enim a dominica in qua cantatur alleluia et extenditur usque quartam feriam [illegible]. In albis [illegible] in octavam pasche. [illegible] in pascha [illegible] decem dies dicitur a denario [illegible] minatur [illegible] [illegible] tempus recolit [illegible] ad memoriam. Septuaginta annorum in quibus filii Israel erant sub servitute Babilonis. Quadragesima vero dicitur a quadraginta diebus [illegible] quadraginta diebus et [illegible]. [illegible] quia [illegible] tot diebus ieiunavit ad [illegible] legem a domino. [illegible] tot diebus ieiunavit [illegible] in [illegible] [illegible] Christus [illegible] tot diebus ieiunavit et diaboli [illegible] et [illegible] [illegible] est [illegible] et nobis tot diebus debemus ieiunare. Sicut enim [illegible] decimamus ita et nobis [illegible] decimare debemus deo. Quadragesima [illegible] et 6 diebus et dimidium [illegible] decima [illegible] dierum anni. [illegible] autem [illegible] a [illegible] [illegible] ad [illegible] temporis [illegible] [illegible] 10 diebus [illegible] superadduntur.

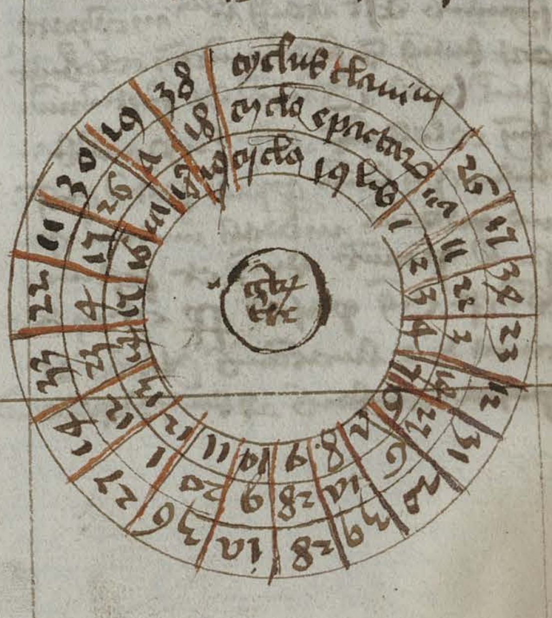
Pascha phase [illegible] [illegible] [illegible] [illegible] phase [illegible] [illegible] dicitur. [illegible] [illegible] possent celebrare festum pasche in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] plaga [illegible]

tur de uidisse adesse eos facta
est visitatio angeli in veteri
lege in die [illegible] et propter
de mortalitate ad immortalitatem
resurrexit [illegible] signans visitationem
et de pugna ad victoriam de [illegible]
vita ad eternam. Diebus autem dominicis
precedunt ieiunia rogationum
[illegible] applaudens. Dominica
[illegible] solo cum lupis [illegible]
quemadmodum in [illegible] sed tamen
contra spirituales ieiunia [illegible]
processiones et [illegible] communiter
nos regit ecclesia. Penthecoste
uero dicitur a pentha quod est quinque et
coste id est quinquagesima [illegible] diebus con
tinetur. Sunt enim quinquaginta dies
inter pascha et penthecosten utroque
die incluso et illud tempus reco
lit ecclesia quoniam in quinquagesimo
a data lege [illegible] data
est et [illegible] Ad huius
igitur festa invenienda [illegible]
[illegible] invenerunt qui
claves dicuntur ut infra patebit
et diebus autem festa ubi hodie
[illegible] applaudunt.
Dominica cum est dies clauis [illegible]
festa mobilia futura in die dominica
proxima [illegible] annuatim de
signans. Est itaque illa in computo
[illegible] festa mobilia celebrantur
simul [illegible] Dominica [illegible] festa non
[illegible] celebrantur [illegible]
[illegible] festa ecclesie
ne videamur iudeos imitari qui
[illegible] ponunt diem et festum.
[illegible] pasce [illegible] est in de
cimo die lunacionis aprilis et
pasca [illegible] ad [illegible]

die lunacionis aprilis quare non potuit
simul esse [illegible] et festum. [illegible]
est quare festa mobilia non habent
certum locum in kalendario [illegible] est pascha
quemadmodum cetera festa mobilia
[illegible] celebrari die dominica. [illegible]
et eadem [illegible] in kalendario non [illegible]
dominica non potuit pascha nec
cetera festa mobilia certum habere
locum in kalendario. Quidam autem dicunt
quod [illegible] passus fuit [illegible] kalendas
aprilis [illegible] cum fecit Adam. Sicut
Theophilus dicit. Alle [illegible]
et sui [illegible] secundum [illegible]
dicunt eadem die voluit [illegible]
hominem et [illegible] redimendo.
quo die fecit [illegible] Alii vero sicut
[illegible] et sui fautores dicunt
quod [illegible] kalendas aprilis passus est
[illegible] cum carnem assumpsit de beata
virgine [illegible] dicunt [illegible] eadem die [illegible]
carnem assumpsit. [illegible] passus est [illegible]
preceptum enim erat in veteri testamento
agnum paschale [illegible] die lunacionis
aprilis immolari ad vesperam hoc est
in principio [illegible] die eiusdem lunacionis
[illegible] qui est verus agnus [illegible]
signatus agnum passus est in plenilu
nio [illegible] tempore lune [illegible]
omnibus [illegible] [illegible] passione
eius [illegible] [illegible]
[illegible] explicatur. [illegible] lunacio
aprilis [illegible] pascha [illegible]
non potuit pascha certo loco assig
nari. Est itaque [illegible] pasca in
secunda kalendas aprilis [illegible]
[illegible] cum luna aprilis incipit [illegible]
[illegible] marcii [illegible] antecedente

assignatur. Quarta kalendas duo dies [illegible]
precedentes per embolismales. duo vero
aliqui precedentes lunaciones, ideo per lu-
naciones anni licet precedat [illegible]
dictus terminus [illegible] dicit Aprilis. Con-
tingit post [illegible] embolismum. Si enim a quar-
to kalendas iam dicta Aprilis computentur
xix dies erit terminus pasce xvij
kalendas Aprilis. et sic patet contingen-
tie variatione litterarum dominicalium quod
pasca celebretur in crastino [illegible]
[illegible] kalendas Aprilis [illegible]
ubi [illegible] sive [illegible] pasca.
Ex predictis iam patet quod [illegible] post nonas
marcii ubi se nova luna [illegible]
bissexto completo diebus [illegible] pasca se-
[illegible] lunacionibus Aprilis se-
[illegible] post nonas marcii. Et [illegible]
ultimum pasca celebratur a quarto kalendas
Aprilis x maii [illegible] ultima
lunacio Aprilis assignatur [illegible] nonas [illegible]
Aprilis ubi [illegible] 8 [illegible] 8 [illegible]
ita fiet tertia die maii sicut [illegible]
precedens [illegible] xx die maii [illegible] contingit
[illegible] et ultimum embolismum. Si igitur
ab ultima lunacione Aprilis iam dicta
computentur xix dies erit ultimus terminus
pasce xi kalendas maii. Et patet contingen-
tie variatione litterarum dominicalium quod
ille [illegible] sit dies dominica [illegible] dies
pasce celebretur septimo die [illegible]
[illegible] est vii kalendas maii. Ex hiis patet
quod in illis 37 diebus qui sunt [illegible]
kalendas Aprilis et vii kalendas Aprilis
sive [illegible] sive [illegible] pasca
celebrari. Item quod in anno qui de-
scendit [illegible] diebus in
anno embolismali ascendit [illegible] 19 di-
es [illegible] pascalis [illegible]
[illegible] celebratur [illegible] kalendas [illegible]

[illegible] anni [illegible] esse kalendas
embolismali ascendunt [illegible]
nove lune [illegible] anno [illegible]
[illegible] undecim [illegible] termini pas-
cales pascales [illegible] qui multiplicati
[illegible] solari et per lunacione
737 [illegible] anni kalendarum [illegible]
[illegible] anno [illegible] dierum summa [illegible]
[illegible] maxima [illegible]
[illegible] que ad solis lune
[illegible] [illegible] eadem [illegible]
[illegible] tenore restaurata
[illegible] vero quarto anno [illegible] sit
[illegible] dominicis addatur [illegible]
[illegible] [illegible] [illegible]
sit anno et totum [illegible] summa
[illegible] et si anno sit [illegible]
summa in ultimo anno. Si vero [illegible]
[illegible] in quo anno summa et
sic [illegible] festa
[illegible] [illegible] sit [illegible]
[illegible] qui claves dicuntur. Sic
enim per claves sit intrare in
[illegible]. Item per [illegible] [illegible]
[illegible] festorum mobilium. [illegible] cla-
ves [illegible] in [illegible] anorum [illegible]
[illegible] [illegible] festorum mobilium [illegible]
[illegible] per [illegible]. [illegible]
in [illegible] 19 [illegible] sit 19 anni [illegible]
[illegible] habet claves sicut in
[illegible] [illegible] epactarum et
clavium sit figura [illegible] subiecta



[illegible] et quod [illegible] embolismali [illegible] [illegible] ista festa [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] 19 [illegible] festa mobilia

Hic docet scire [illegible] clavium [illegible]

Primum autem anni currentis [illegible] post 28 per clavem a [illegible] [illegible] sumi [illegible] claves [illegible] [illegible] per additionem 14 [illegible] in [illegible] tatis quod si excreverit [illegible] [illegible] ut maiorem [illegible] aliquam 30 et [illegible] est clavibus [illegible]. Sed si excreverit [illegible] clavis [illegible] terminis [illegible] [illegible] viginti [illegible] [illegible] [illegible] [illegible] [illegible] digitum [illegible] clavibus [illegible] [illegible] eius ponendo digitos sinistre manus donec [illegible] anni cur[illegible] de quo [illegible] clavis [illegible] [illegible] a pollice [illegible] [illegible] [illegible] [illegible]. Si in medio [illegible] si in maiori digito 31. Si autem in medico [illegible]. Si in auriculari [illegible] et [illegible] [illegible] claves manifestantur ut [illegible] [illegible] quod si excreverit [illegible] [illegible] clavium in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] claves [illegible] [illegible] clavis et loco [illegible] [illegible] [illegible] [illegible] in quo [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ad habendum [illegible] [illegible] [illegible] [illegible] dies [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] dies [illegible] [illegible] [illegible] in die dominica [illegible] [illegible] [illegible] [illegible] [illegible] habendum septuagesimam [illegible] quadragesimam in [illegible] anno [illegible] [illegible] clavi addenda [illegible] [illegible] [illegible] [illegible] septuagesimam ad quadragesimam [illegible] per clavem [illegible] [illegible] [illegible] a diebus [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] festo stelle [illegible] [illegible] [illegible] quadraginta dies et septuagesima [illegible]. Et si bissextus in [illegible] [illegible] [illegible] diebus. Si [illegible] in [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] epiphania que [illegible] festum stelle dicitur. Sicut [illegible] in [illegible] [illegible] in [illegible] [illegible]. [illegible] [illegible] in [illegible] et quadragesime [illegible] septuagesime et in die dominica [illegible] [illegible] [illegible] [illegible] septuagesima [illegible] si bissextus [illegible] addatur dies [illegible] [illegible] [illegible]. Ad habendum terminum pasche [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] religiosos. In [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] anni [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] pascales [illegible] [illegible] [illegible] anno et si [illegible] in [illegible] [illegible] martio [illegible] diebus [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] alphabeti et [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible] [illegible] [illegible] [illegible] [illegible] pasche. Si autem non [illegible] in [illegible] pascalibus [illegible] [illegible] in aprili [illegible] diebus [illegible] a [illegible] aprilis [illegible] [illegible] [illegible] [illegible] in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] et [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. Hec sunt [illegible] [illegible] [illegible] [illegible] anni [illegible] [illegible] [illegible] [illegible] et sic de [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] in alphabeto et [illegible] [illegible] [illegible] in tempore [illegible]

ne [illegible] fallat caveat [illegible]
calculator [illegible] vicini [illegible] vitari
[illegible] assignare docebis.

Iste [illegible] presens [illegible] opibus [illegible]
[illegible] de temporibus [illegible]
[illegible] in usu est. [illegible] [illegible]
[illegible] est de hac. Est igitur lustrum
spacium quinque annorum a romanis ad
[illegible] ad tempus distinctionem quod
[illegible] absque [illegible] pluribus [illegible]
[illegible] lustro ab [illegible] sive [illegible]
[illegible] distinctionem et in [illegible]
[illegible] Romanam civitatem [illegible]
[illegible] et candelis et [illegible]
[illegible] campos [illegible] elegerunt et
[illegible] ytalia [illegible] memorant [illegible]
lustra [illegible] qui iam [illegible]. Indictio
est spacium 15 annorum ad recipienda
[illegible] institutum et
dicitur ab indicendo [illegible]
[illegible] ad [illegible] [illegible]
[illegible] festa [illegible]
Cum enim Romani [illegible] fere
omnes nationes [illegible]
[illegible] ut [illegible]
[illegible] et [illegible] difficultate [illegible]
in fine primi quinquennii [illegible]
[illegible] aurum ad dominationem [illegible]
In fine secundi argentum ad stipendia
militaria. In fine tercii es et ferrum
ad armorum reparationem. Unde ad
indicendo a quibusdam erea et ferrea
ab ere et ferrea a ferro [illegible]
[illegible]. Instituerunt [illegible] in
privilegium [illegible] [illegible]
[illegible] est stabilis ut firmam
habet annum indictionis [illegible]
Et hoc [illegible] salubrior [illegible]
[illegible] labitur. Debes autem [illegible]
[illegible] indictionem scilicet in privilegio
[illegible] pascali et in dedica-
[illegible]. Incipit autem
cyclus indictionum a septembri [illegible]
[illegible] est [illegible] unde
[illegible]. Si autem

placeat scire in quoto anno
cycli indictionum sit [illegible] anno
domini addantur 3 [illegible] remanent
[illegible] in quoto anno cycli
indictionum et totum per 15 divide
et si aliquid fuerit residuum sume
in ultimo cycli indictionum anno.
Si vero aliquid [illegible]
in quoto anno [illegible] est
indictio [illegible] ad totum cyclum 15
annorum et ad [illegible] [illegible]
[illegible] dicitur spacium centum
annorum [illegible] preterire secula.
Seculum dicitur [illegible] mundus
[illegible] et tota machina
mundana cum suis contentis.
Evum vero dicitur spacium mille
annorum. Evum eciam [illegible] dicitur
[illegible] unde hec [illegible]
Item evum [illegible] unde
Boetius dicit [illegible]
O qui perpetua mundum racione gu-
bernas. Terrarum sator [illegible]
evum ab evo ire iubes. Sta-
bilisque manens das cuncta mo-
veri. Tu stabilire velis [illegible]
[illegible]
[illegible] De sacro [illegible]
[illegible]
[illegible] Johannes [illegible] hec nobis [illegible]
[illegible] fructum [illegible]
[illegible]

Explicit computus
philozophicus [illegible]
[illegible] Sub anno domini [illegible]
[illegible] tricesimo quarto [illegible]